Primary Mathematics
Placement Test

1A

Name: _____ Date: _____

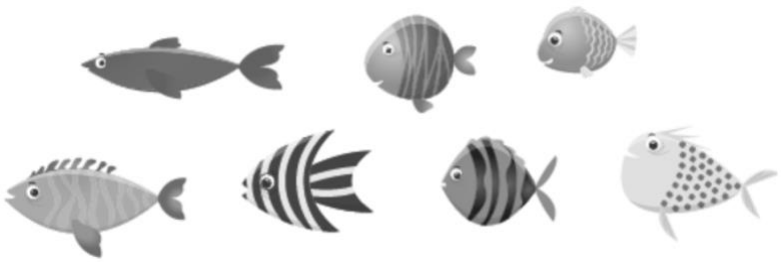
Placement Test for Primary Mathematics 1A

1. Count. Write the numbers. [2]

(a)

_____

(b)



_____

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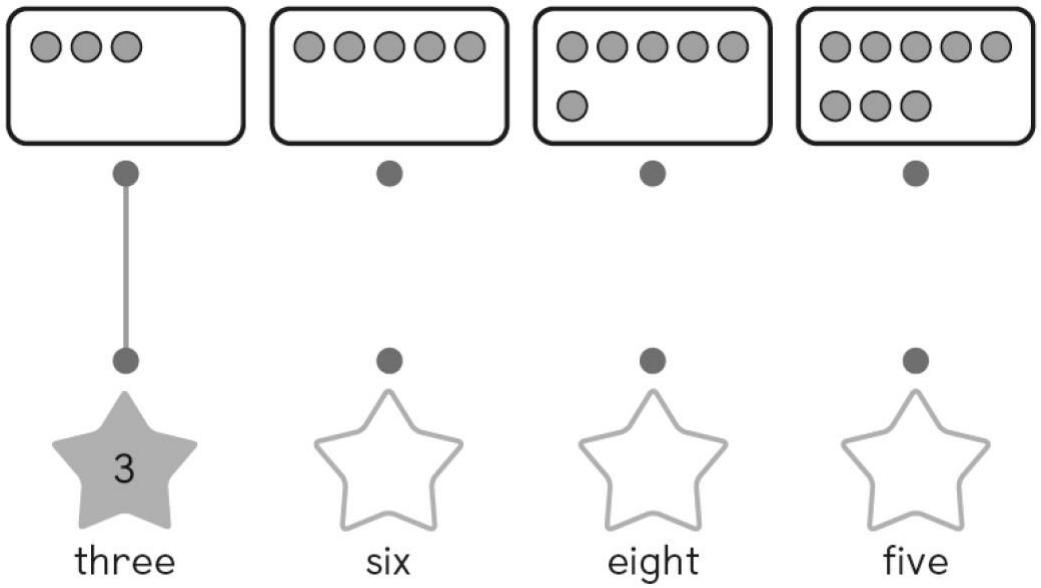
2. Match. Write the numbers. [2]



3. Write the missing numbers. [4]

(a)

(b)

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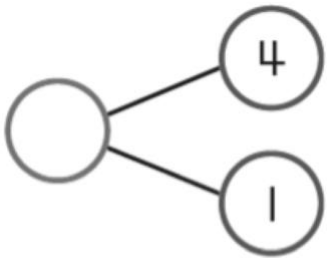
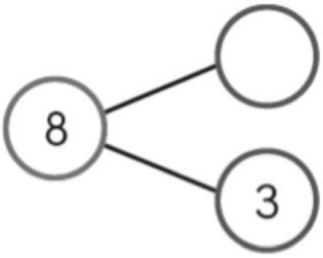
4. Write the missing numbers. [3]

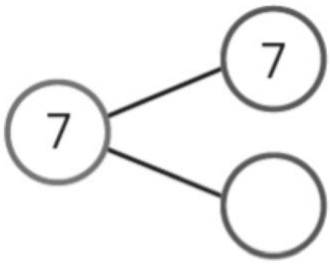
(a)



(b)



(c)



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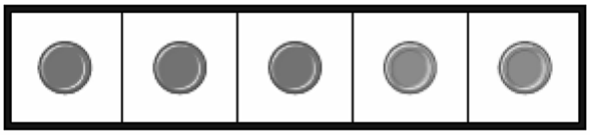
5. Write the missing numbers. [2]

(a)

2 + 1 = _____

(b)



3 + _____ = _____

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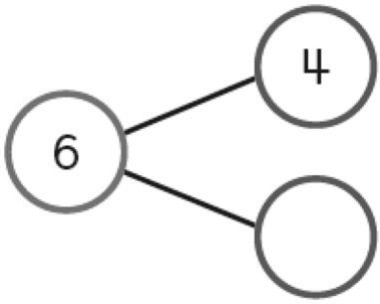
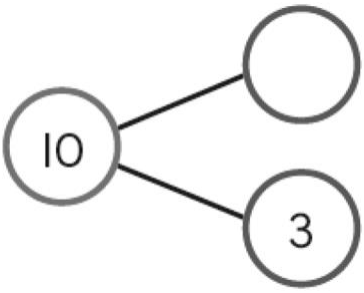
6. Write the missing numbers. [2]

7. Write the missing numbers. [2]

(a) (b)





8. Write the missing numbers. [2]

(a) 3 + _____ = 5

(b) 4 + _____ = 7

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9. Subtract. [2]

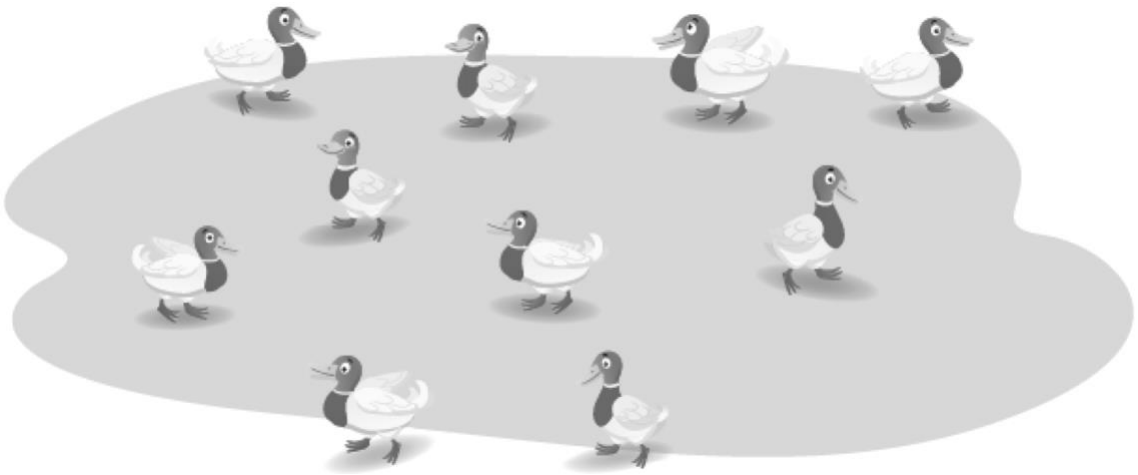
(a)

3 – 1 = _____

(b)

5 – _____ = _____

10. Count and write the number. [1]



_____

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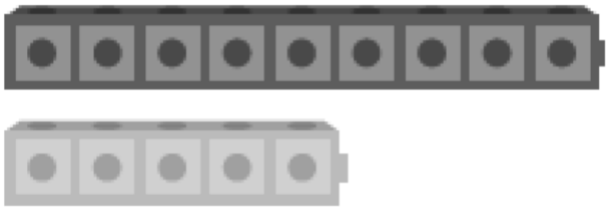
11. Fill in the blanks. [1]



_____ is greater than _____.

12. Color the number that is less. [2]

(a) (b)

13. Write the missing numbers. [2]

(a) 10 and 2 is _____.

(b) 18 is _____ and 8.

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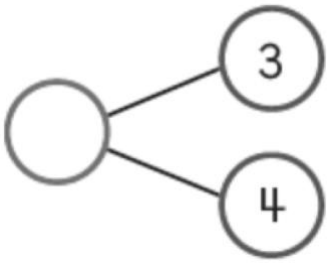
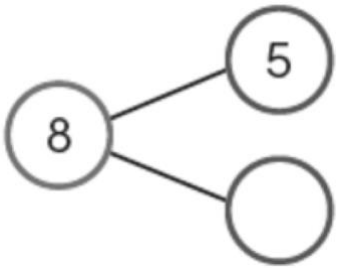
14. Write the missing numbers. [3]

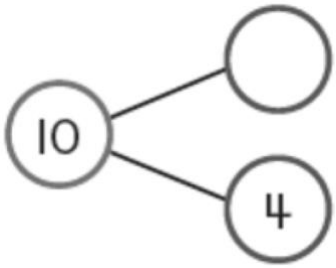
(a)



(b)



(c)



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15. Add or subtract. [2]

(a) 4 + 2 = _____

(b) _____ = 10 – 3

16. Write the missing numbers. [4]

10 – 2 = _____ 8 + _____ = 10

10 – _____ = 2 2 + _____ = 10

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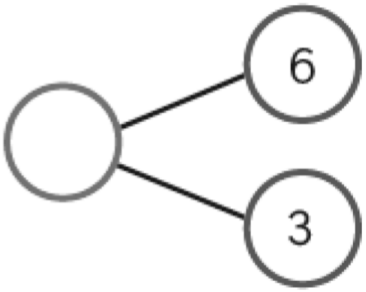
17. There are 6 squirrels. [4]

3 squirrels join them.

How many squirrels are there in all?

Draw ◯ to show the numbers.



_____ + _____ = _____

There are _____ squirrels in all.

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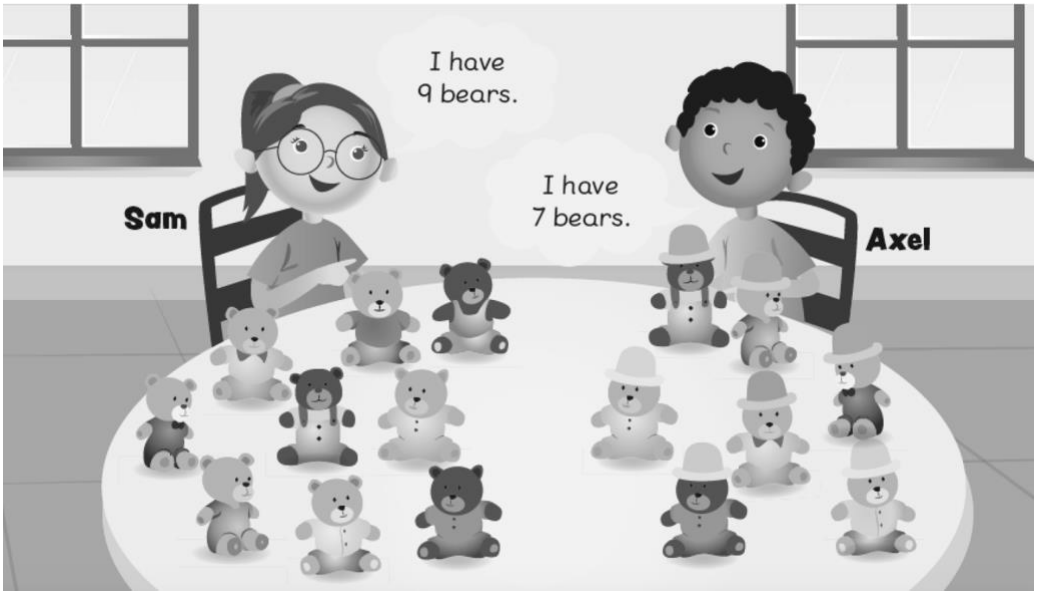
18. Who has more bears? [3]

How many more?



_____ – _____ = _____

_____ has _____ more bears

than _____.

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19. Add. [2]

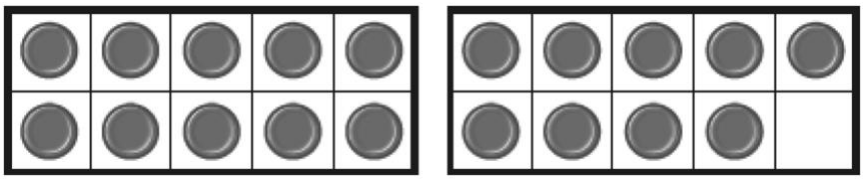
(a)

9 + 3 = _____

(b) 8 + 8 = _____

20. Subtract. [2]

(a)



19 – 5 = _____

(b) 14 – 8 = _____

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21. Write the missing numbers. [4]

(a) 16 + _____ = 20

(b) _____ + 5 = 17

(c) 18 −_____ = 16

(d) _____ − 3 = 12

22. Write **shorter** or **longer**. [2]

(a) Straw A is _____ than Straw B.

(b) Straw B is _____ than Straw A.

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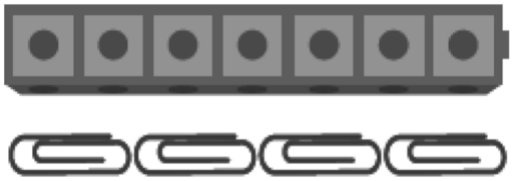
23. Fill in the blanks. [2]



(a) There are _____  in all.

(b) There are _____  in all.

24. Order the numbers 15, 9, and 12 from least to greatest. [2]

_____, _____, _____

least greatest

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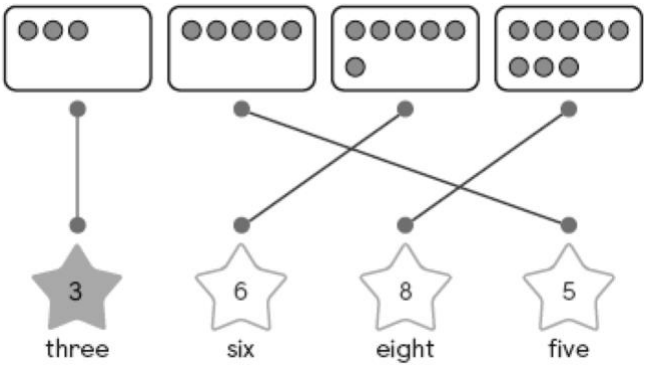
Answer Key

1. (a) 2 (b) 7

2.



3. (a) 5, 6 (b) 8, 9, 10

4. (a) 5 (b) 5 (c) 0

5. (a) 3 (b) 2, 5

6. 6, 5

7. (a) 2 (b) 7

8. (a) 2 (b) 3

9. (a) 2 (b) 4, 1

10. 10

11. 9, 5

12. (a) 2 (b) 9

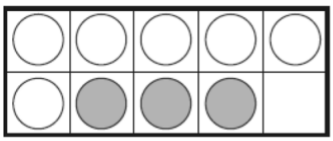
13. (a) 12 (b) 10

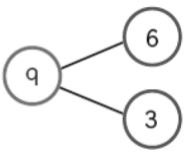
14. (a) 7 (b) 3 (c) 6

15. (a) 6 (b) 7

16. 8, 2, 8, 8

17.





6, 3, 9

9

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18. 9, 7, 2

    Sam, 2, Axel

19. (a) 12 (b) 16

20. (a) 14 (b) 6

21. (a) 4 (b) 12

    (c) 2 (d) 15

22. (a) longer

    (b) shorter

23. (a) 7 (b) 4

24. 9, 12, 15

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Primary Mathematics
Placement Test

1B

Name: _____ Date: _____

Placement Test for Primary Mathematics 1B

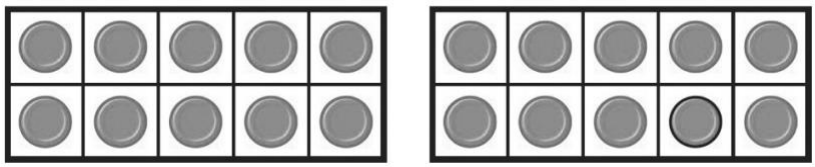
1. Count. Write the numbers and words. [4]

(a)

Number _____

Word _____

(b)



Number _____

Word _____

2. Fill in the blanks. [2]

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(a) 10 and _____ make 16.

(b) 20 is _____ and 10.

3. Write **<**, **=**, or **>**. [3]

(a) 17 ◯ 9

(b) 14 ◯ 18

(c) 12 ◯ 10 and 2

4. What could be the missing number? [2]

Circle all the possible numbers.

_____ < 15

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5. Order the numbers from greatest to least. [2]

_____, _____, _____

greatest least

6. Fill in the blanks. [2]

(a) 1 more than 6 is _____.

(b) _____ is 1 less than 9.

7. Write the missing numbers. [4]

(a)

(b)

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8. Add. [2]

(a) 16 + 3 = _____ (b) 6 + 7 = _____

9. Subtract. [2]

(a) 18 − 3 = _____ (b) 12 − 8 = _____

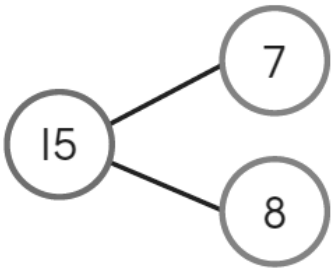
10. Complete the fact family. [4]

7 + _____ = 15

15 − 7 = _____

_____ + _____ = _____

_____ − _____ = _____



11. Fill in the blanks. [2]

12 

7 

_____ is less than _____.

12. Fill in the blanks. [3]

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(a) _____ is the greatest number.

(b) _____ is the least number.

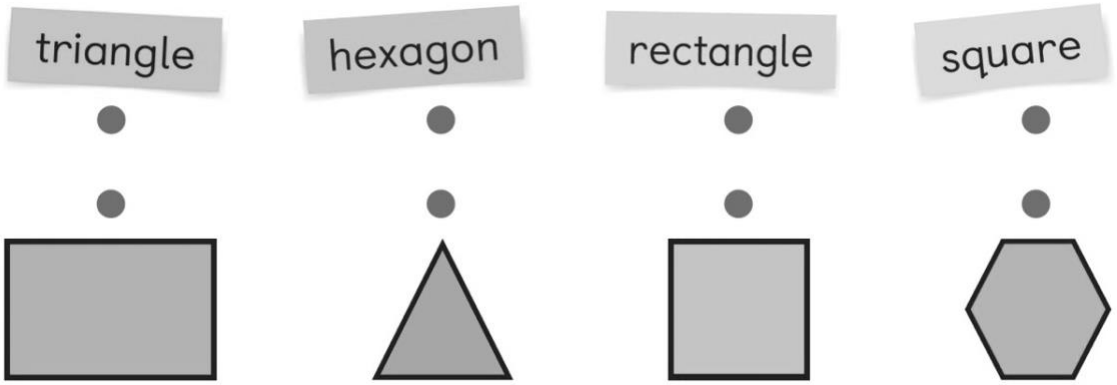
(c) Order the numbers from greatest to least.

_____, _____, _____

greatest least

13. Match.

Fill in the blanks. [4]



____ sides ____ sides ____ sides ____ sides

____ corners ____ corners ____ corners ____corners

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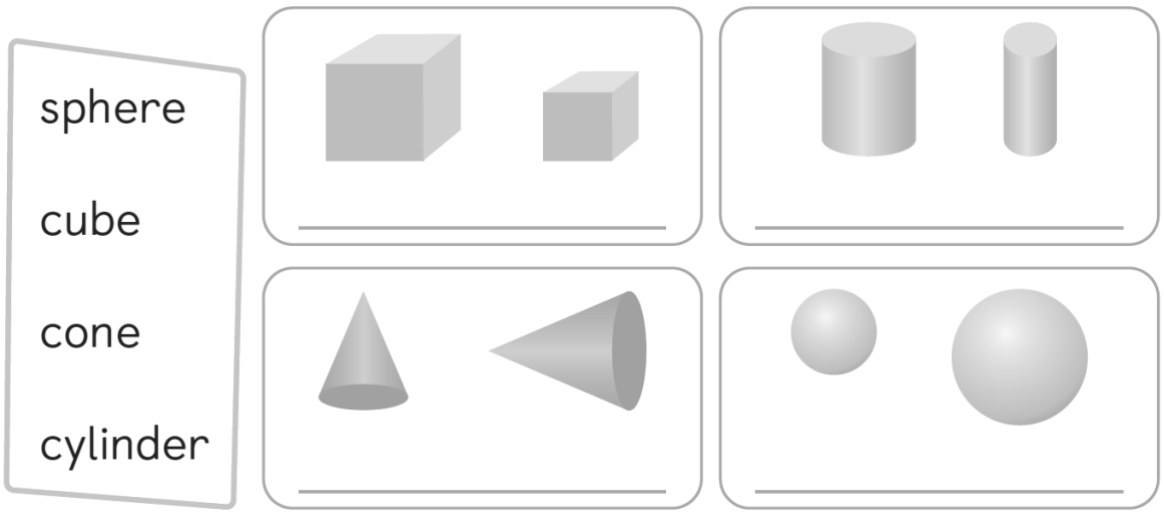
14. Fill in the blanks. [4]



15. Fill in the blanks. [3]

(a) 1 more than 4 is _____.

(b) 1 less than 12 is _____.

(c) _____ is 1 more than 8.

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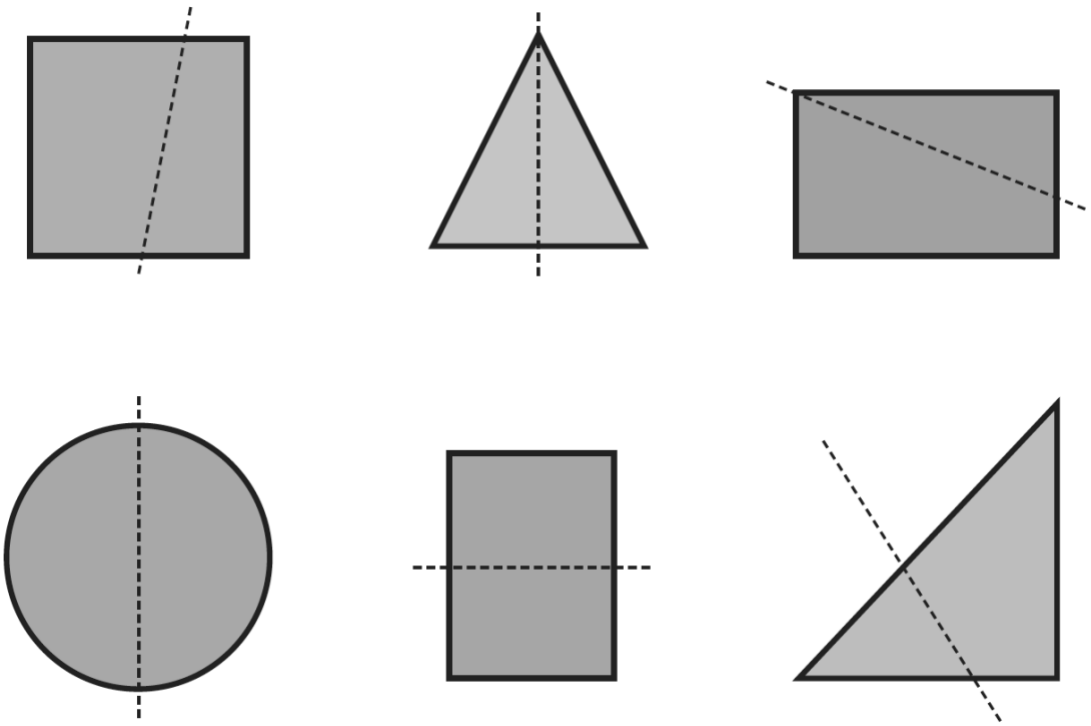
16. Circle the shapes that show halves. [3]



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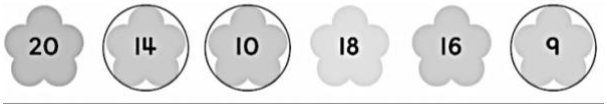
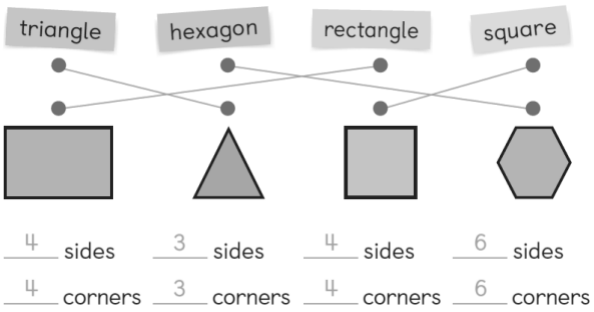
Answer Key

1. (a) 13, thirteen
   (b) 20, twenty
2. (a) 6 (b) 10
3. (a) > (b) < (c) =
4. 

5. 20, 17, 12
6. (a) 7 (b) 8
7. (a) 10, 11, 13
   (b) 19, 18, 16, 14
8. (a) 19 (b) 13
9. (a) 15 (b) 4
10. 8
    8
    8, 7, 15
    15, 8, 7
11. 7, 12
12. (a) 20 (b) 8
    (c) 20, 13, 8
13. 

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14. cube, cylinder

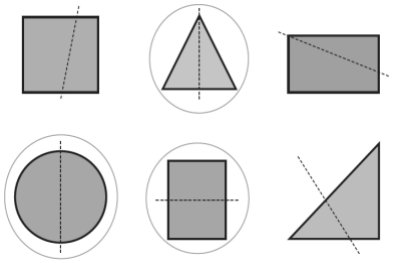
cone, sphere

15. (a) 5

(b) 11

(c) 9

16.



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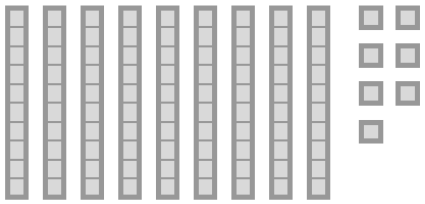
Primary Mathematics
Placement Test

2A

Name: _____ Date: _____

Placement Test for
Primary Mathematics 2A

1. Fill in the blanks. [3]

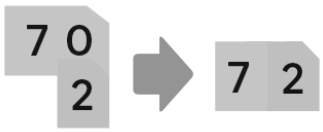


Tens	Ones

_____ tens _____ ones

= _____

2. Write the missing numbers. [4]

(a) 

70 and 2 make _____.

70 + 2 = _____

(b) 64 is _____ and 4.

(c) _____ + 6 = 46

3. Write the numbers. [3]

(a) twenty-eight _____

(b) thirty-five _____

(c) one hundred four _____

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4. Write the numbers in words. [3]

(a) 40 _____

(b) 93 _____

(c) 112 _____

5. Fill in the blanks with **<**, **=**, or **>**. [3]

(a) 79 ◯ 80

(b) seventy-four ◯ 7 tens 4 ones

(c) 5 tens 3 ones ◯ 4 tens 8 ones

6. Which number is greater than 50 but less than 70? [1]

(A) 48 (B) 50

(C) 63 (D) 91

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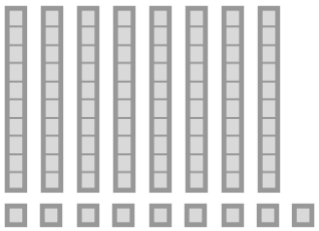
7. Order the numbers from greatest to least. [2]

48 9 61

_____ > _____ > _____

greatest least

8. Fill in the blanks. [4]



(a) What number is 1 more than 89? _____

(b) What number is 1 less than 89? _____

(c) What number is 10 more than 89? _____

(d) What number is 10 less than 89? _____

9. What is the missing number in the pattern? [1]

70, 68, ?, 64, 62, 60

(A) 63 (B) 65

(C) 66 (D) 67

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10. How many cents are there? [1]

(A) 100¢ (B) 64¢

(C) 46¢ (D) 10¢

11. Fill in the blanks. [2]

13 + 6 = 10 + _____

= _____

12. Write the missing number. [1]

6 + 7 = 7 + _____

13. Add. [5]

(a) 43 + 6 = _____ (b) 25 + 7 = _____

(c) 31 + 20 = _____ (d) 62 + 15 = _____

(e) 54 + 29 = _____

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14. Subtract. [6]

(a) 37 – 5 = _____ (b) 24 – 8 = _____

(c) 50 – 5 = _____ (d) 45 – 20 = _____

(e) 59 – 16 = _____ (f) 45 – 29 = _____

15. Subtract using a related addition fact. [2]

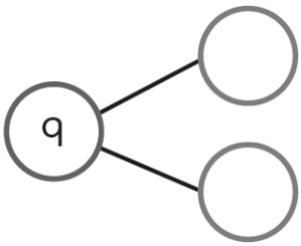
15 – 7 = ?

7 + _____ = 15

15 – 7 = _____

16. Fill in the blanks.

Complete the fact family. [4]



3 + 6 = 9

_____ _____ = _____

_____ _____ = _____

_____ _____ = _____

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17. Add. [2]

(a) 106 + 591 = _____

(b) 728 + 74 = _____

18. Subtract. [2]

(a) 485 – 64 = _____

(b) 800 – 137 = _____

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19. There are 15 green buttons and 7 red buttons in a bowl.
How many buttons are there in the bowl? [2]

There are _____ buttons in the bowl.

20. Ali made 25 paper flowers.
He gave 9 of them to his friends.
How many paper flowers did he have left? [2]

He had _____ paper flowers left.

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Answer Key

1. 9, 7

   9, 7, 97

2. (a) 72, 72

   (b) 60 (c) 40

3. (a) 28 (b) 35 (c) 104

4. (a) forty

   (b) ninety-three

   (c) one hundred twelve

5. (a) < (b) = (c) >

6. C

7. 61, 48, 9

8. (a) 90 (b) 88

   (c) 99 (d) 79

9. C

10. B

11. 9, 19

12. 6

13. (a) 49 (b) 32

    (c) 51 (d) 77

    (e) 83

14. (a) 32 (b) 16

    (c) 45 (d) 25

    (e) 43 (f) 16

15. 8, 8

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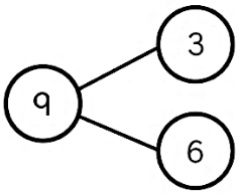
16.



6 + 3 = 9

9 – 3 = 6

9 – 6 = 3

17. (a) 697 (b) 802

18. (a) 421 (b) 663

19. 15 + 7 = 22

22

20. 25 – 9 = 16

16

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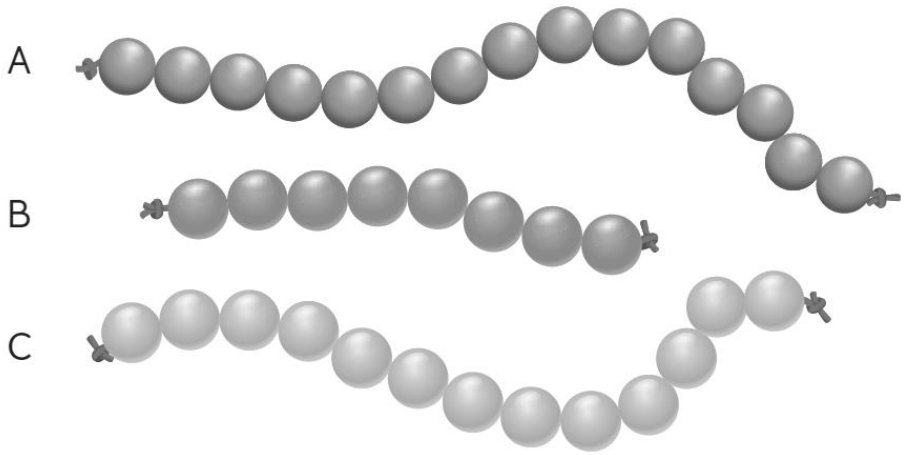
Primary Mathematics
Placement Test

2B

Name: _____ Date: _____

Placement Test for Primary Mathematics 2B

1. [5]



(a) Necklace A is _____ than Necklace C.

(b) Necklace B is _____ than Necklace C.

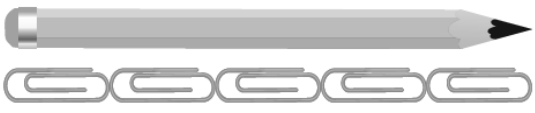
(c) _____ is the longest necklace.

(d) Order the necklaces from longest to shortest.

_____, _____, _____

longest shortest

2. Each  stands for 1 unit. [1]



The pencil is about _____ units long.

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3. Write the missing numbers. [2]

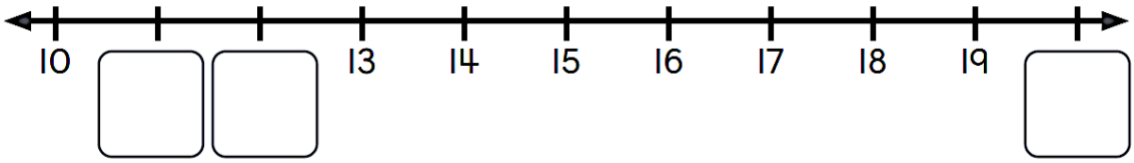
(a)

2 + 2 = _____

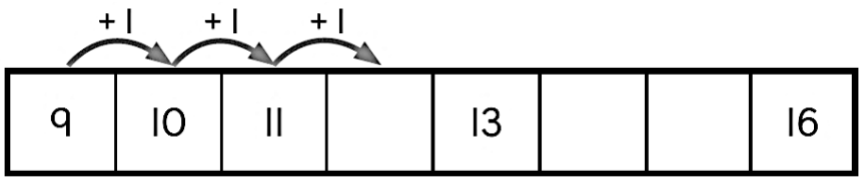
(b)

2 + 2 + 2 = _____

4. Write the missing numbers. [3]



5. Write the missing numbers. [3]



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6. Write the time. [4]

(a)

_____ or

_____:_____

(b)

_____ or

_____:_____

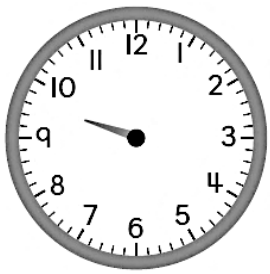
7. Draw the minute hands. [4]

(a) 7:00

(b) 2:30

(c) 12 o'clock

(d) Half past 9



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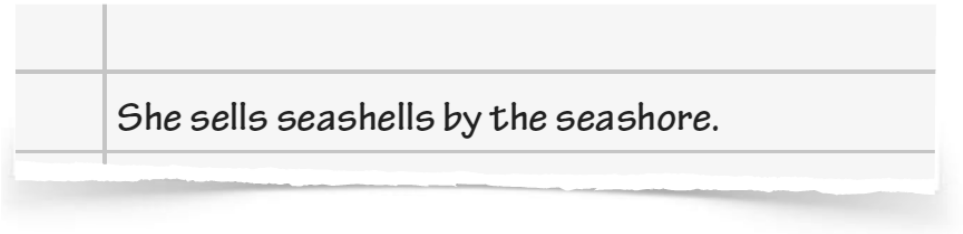
8. Count the number of times the letters appear in the sentence. [9]



(a) Complete the tally chart.

Letter	Tally	Number of Times
s		
h		
e		

(b) Use the data in the tally chart to make the picture graph.

Letters in Sentence

s	
h	
e	
Key: Each ◇ stands for I letter.	

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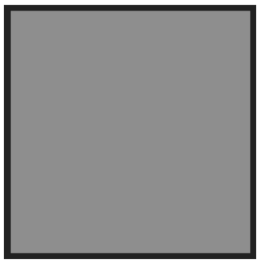
9. Fill in the blanks. [4]

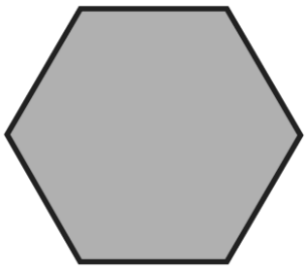
(a)



_____ sides

_____ vertices

(b)

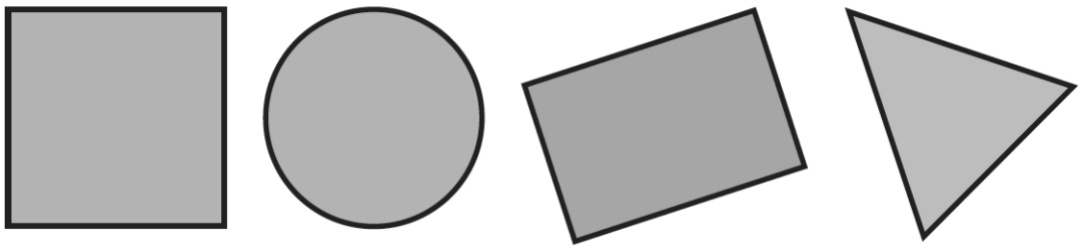


_____ sides

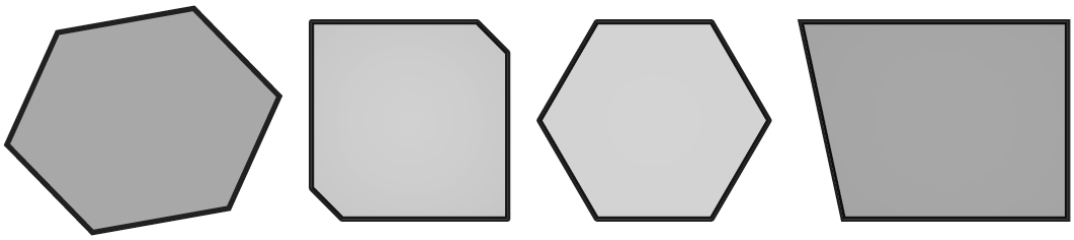
_____ vertices

10. Circle the shape that does **not** belong. [2]

(a)



(b)



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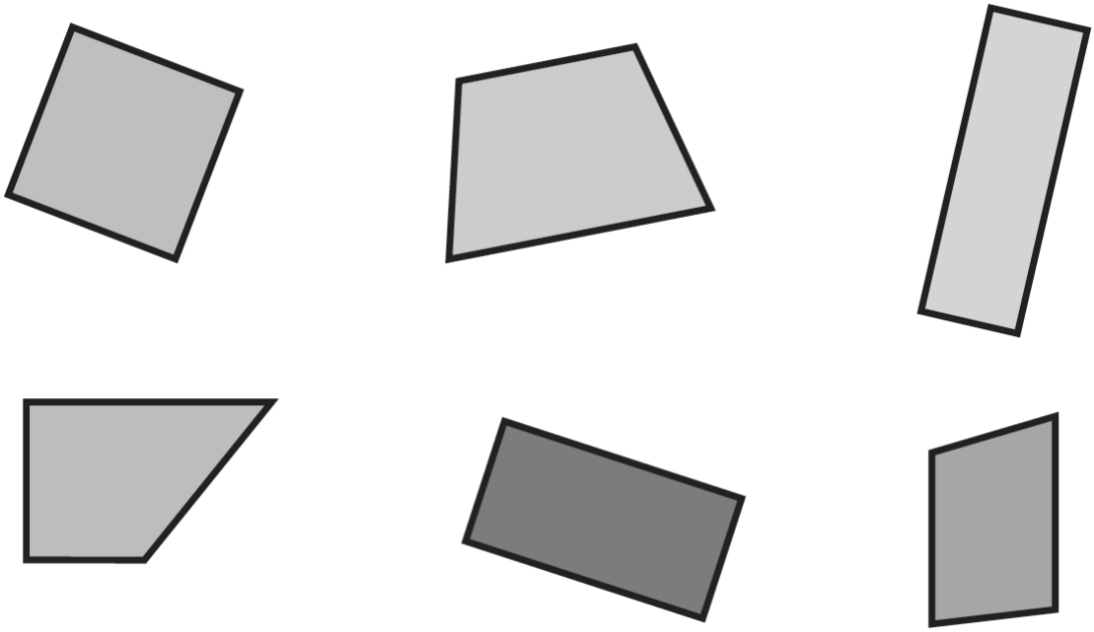
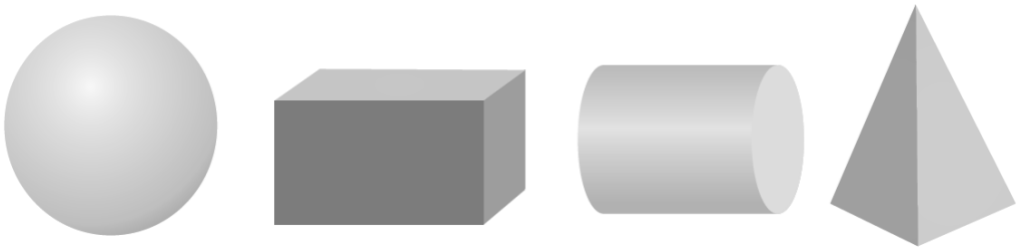
11. Circle all the trapezoids. [3]

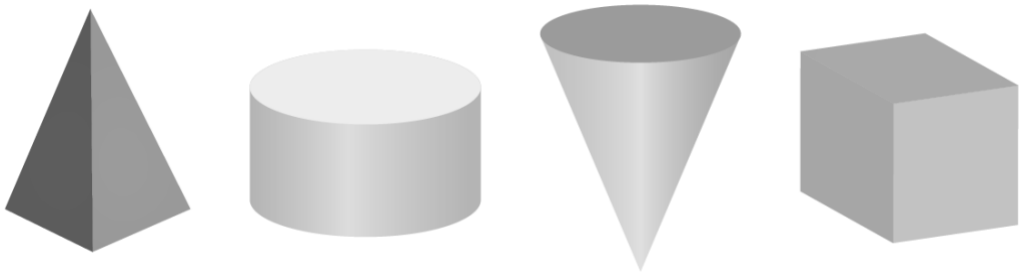


12. Circle the correct shapes. [2]

(a) Which is a rectangular prism?



(b) Which is a cone?



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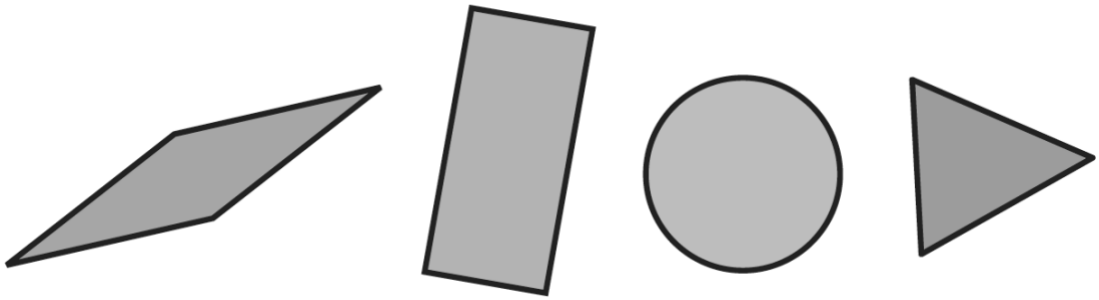
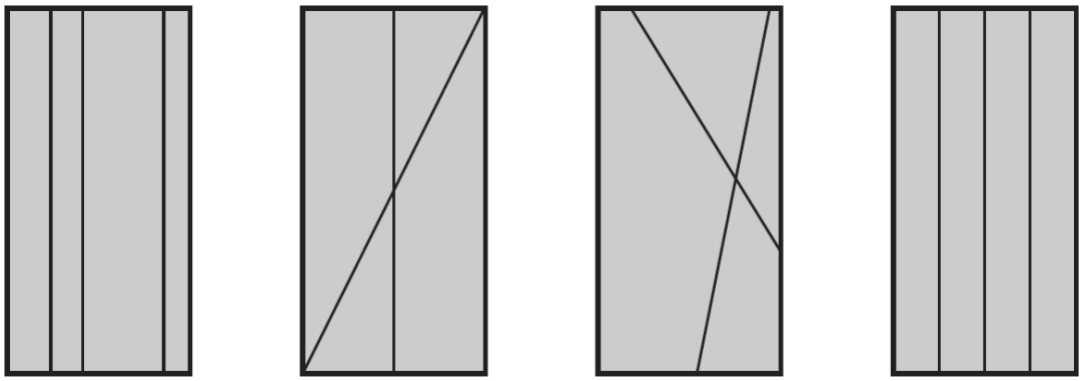
13. Draw a line to show two equal parts in each shape. [4]



14. Circle the rectangle that shows four fourths. [1]



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Answer Key

1. (a) longer
   (b) shorter
   (c) A
   (d) A, C, B
2. 5
3. (a) 4 (b) 6
4. 11, 12, 20
5. 12, 14, 15
6. (a) 6 o’clock, 6:00
   (b) Half past 4, 4:30
7. (a)

(b)

(c)

(d)

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8. (a)

Letter	Tally	Number of Times
s	𝍸 |||	8
h	||||	4
e	𝍸 ||	7

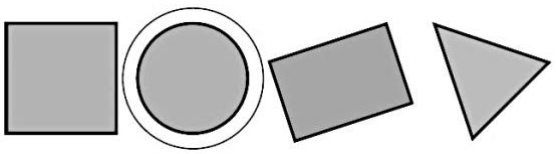
(b)

Letters in Sentence

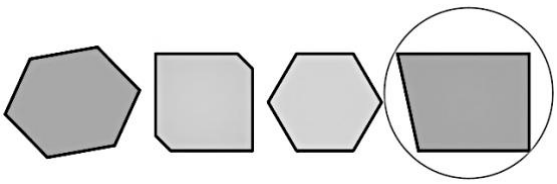
s	◇ ◇ ◇ ◇ ◇ ◇ ◇ ◇
h	◇ ◇ ◇ ◇
e	◇ ◇ ◇ ◇ ◇ ◇ ◇
Key: Each ◇ stands for 1 letter.	

9. (a) 4, 4 (b) 6, 6

10. (a)



(b)



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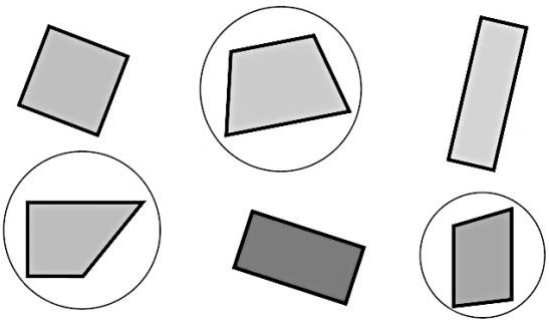
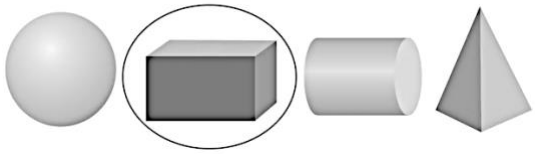
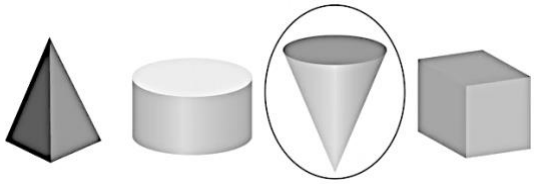
11.



12. (a)

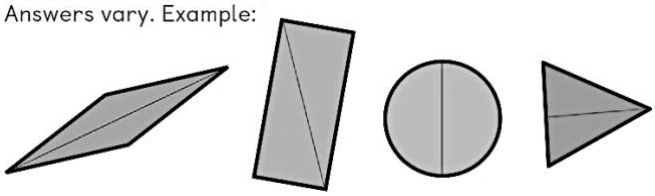


(b)

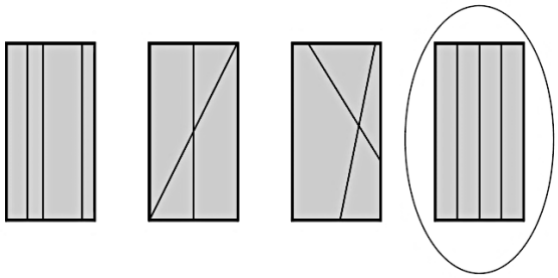


13.

Answers vary. Example:



14.



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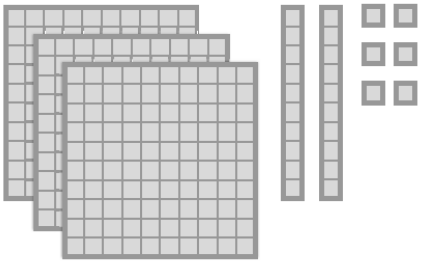
Primary Mathematics
Placement Test

3A

Name: _____ Date: _____

Placement Test for Primary Mathematics 3A

1. Count and write the numbers. [1]



_____

2. Write the numbers in standard form. [2]

   (a) four hundred seventeen _____

   (b) nine hundred five _____

3. Write the numbers in word form. [2]

   (a) 845

   _____

   (b) 720

   _____

4. Write the missing numbers. [2]

   (a) 4 hundreds 8 tens 5 ones = _____

   (b) 813 = _____ hundreds 1 ten 3 ones

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5. Write the numbers in expanded form. [2]

(a) 187 = _____ + _____ + _____

(b) 940 = _____ + _____ + _____

6. Write the missing numbers. [4]

(a) _____ is 1 more than 549.

(b) _____ is 10 less than 780.

(c) _____ is 10 more than 490.

(d) 345 is _____ more than 245.

7. Fill in the missing numbers in the number patterns. [2]

(a) 32, 34, 36, 38, 40, _____, _____

(b) 87, 84, 81, _____, _____, 72, 69

8. Write **<**, **=**, or **>**. [4]

(a) 450 ◯ 499

(b) 178 ◯ 187

(c) 814 ◯ 481

(d) 670 ◯ 600 + 70

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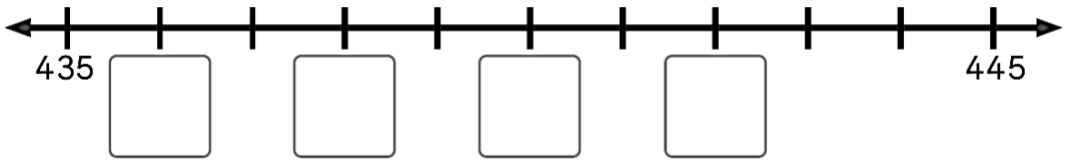
9. Which group shows the numbers in order from greatest to least? [1]

(A) 708, 780, 807, 870
(B) 780, 870, 708, 807
(C) 807, 870, 708, 780
(D) 870, 807, 780, 708

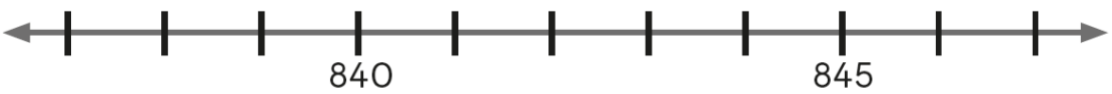
10. Write the missing numbers. [4]



11. Draw arrows to show the positions of the numbers on the number lines. [2]

(a) 578

(b) 837



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12. Add or subtract mentally. [4]

(a) 3 + 9 = _____ (b) 9 + 6 = _____

(c) 16 – 7 = _____ (d) 15 – 9 = _____

13. Add. Show your work. [4]

(a) 365 + 24 = _____ (b) 217 + 712 = _____

14. Subtract. Show your work. [4]

(a) 538 – 26 = _____ (b) 485 – 281 = _____

15. Round 467 to the nearest ten.

Which is the correct answer? [1]

(A) 460 (B) 470

(C) 400 (D) 500

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16. Which number gives 900 when rounded to the nearest hundred? [1]

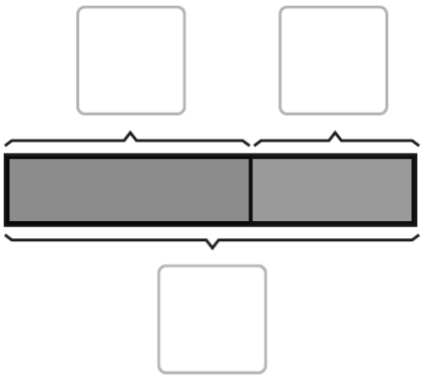
(A) 839 (B) 845

(C) 918 (D) 962

17. Aubrey has 67 game cards.

Her brother gives her another 45 game cards.

How many game cards does Aubrey have in all? [3]



_____ ◯ _____ = _____

Aubrey has _____ game cards in all.

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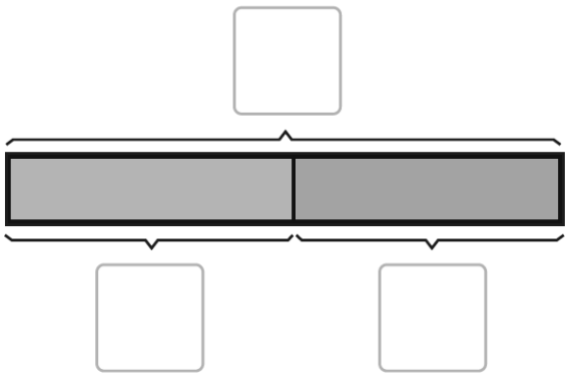
18. Farmer Luke has 306 eggs.

He sells 158 eggs.

How many eggs does Farmer Luke have left? [3]



_____ ◯ _____ = _____

Farmer Luke has _____ eggs left.

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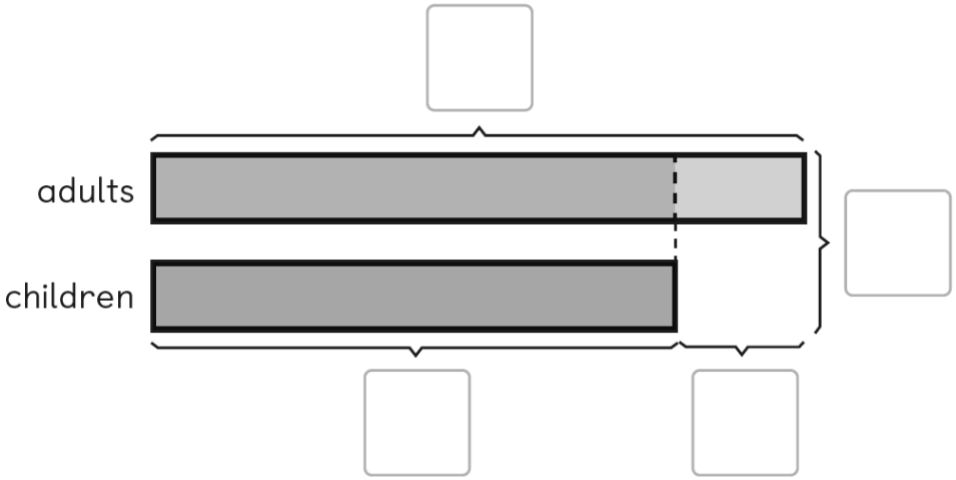
19. There are 91 adults at a carnival.

There are 18 fewer children than adults.

(a) How many children are at the carnival?

(b) How many adults and children are at the carnival in all?

[5]



(a) _____ ○ _____ = _____

_____ children are at the carnival.

(b) _____ ○ _____ = _____

_____ adults and children are at the carnival in all.

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20. How many pairs can you make? [1]

(A) 1 (B) 2

(C) 4 (D) 8

21. Write the missing numbers. [3]

6 groups of _____

5 + 5 + 5 + 5 + 5 + 5 = _____

6 fives = _____

22. How many stickers are there in all? [3]

3 rows of _____

_____ + _____ + _____ = _____

There are _____ stickers in all.

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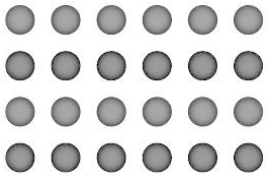
23. Write the missing numbers. [4]

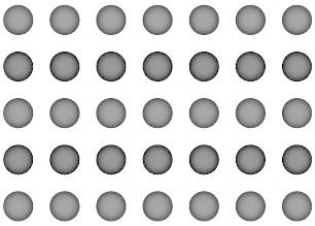
(a)



4 × 6 = _____

24 ÷ 4 = _____

(b)



5 × 7 = _____

35 ÷ 5 = _____

24. Write a multiplication equation and a division equation. [2]

_____ ◯ _____ = _____

_____ ◯ _____ = _____

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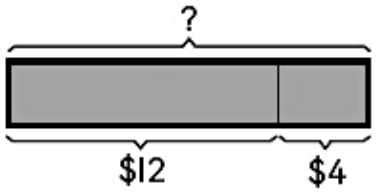
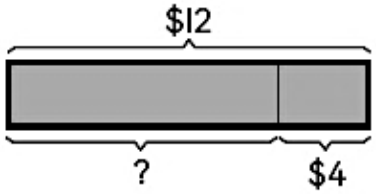
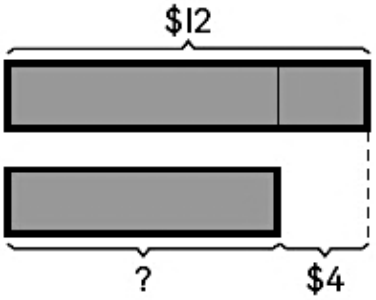
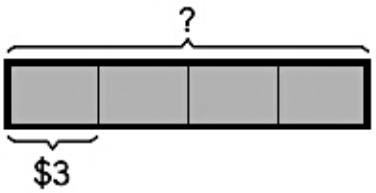
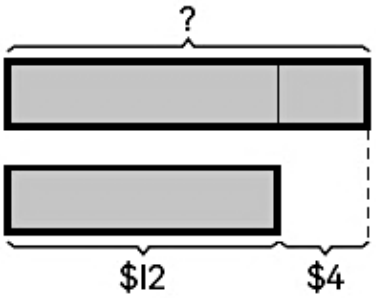
25. Match each bar model to a word problem. [5]











- Anya has $12. She spends $4. How much money does she have left?
- Isabel has $4 less than Joseph. Isabel has $12. How much money does Joseph have?
- Jade and her three sisters have $3 each. How much money do they have in all?
- Layla has $12. Her father gives her another $4. How much money does she have now?
- Caleb has $12. He has $4 more than Chloe. How much money does Chloe have?

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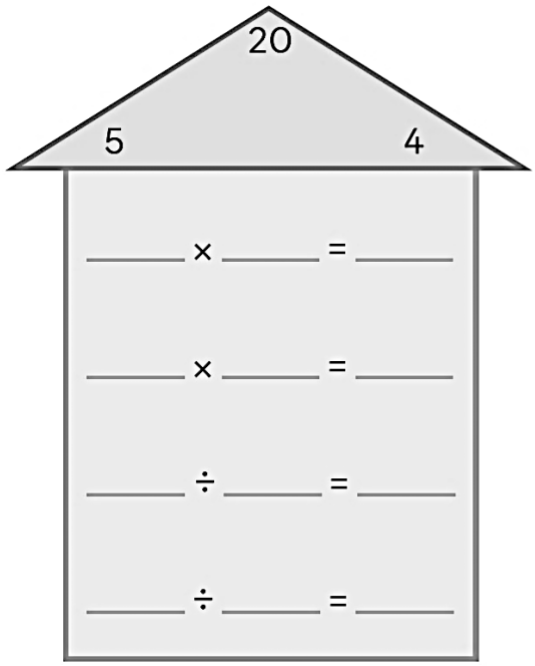
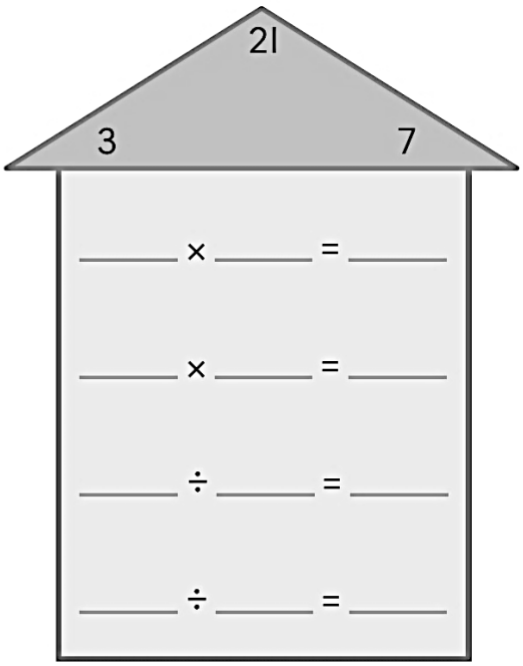
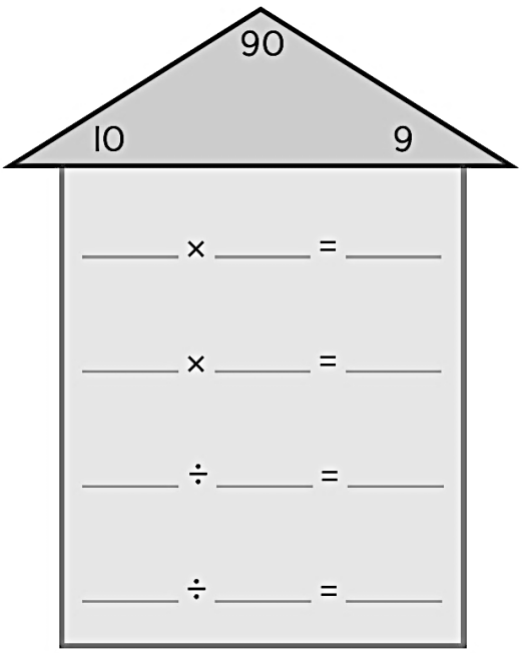
26. Write the related multiplication and division equations using the numbers given. [3]







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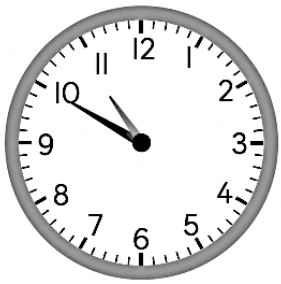
27. Write **past** or **to** to tell the time. [2]

(a)

15 minutes _____ 6

(b)



10 minutes _____ 11

28. Write the time. [2]

(a)

_____ : _____

(b)

_____ : _____

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29. Write the time using **a.m.** or **p.m.** [2]

(a)

It is _____.

(b)

It is _____.

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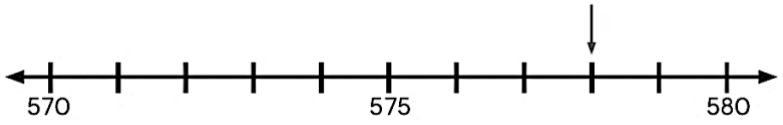
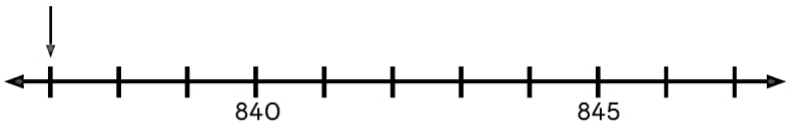
Answer Key

1. 326
2. (a) 417 (b) 905
3. (a) eight hundred forty-five
   (b) seven hundred twenty
4. (a) 485 (b) 8
5. (a) 100, 80, 7
   (b) 900, 40, 0
6. (a) 550 (b) 770
   (c) 500 (d) 100
7. (a) 42, 44
   (b) 78, 75
8. (a) < (b) <
   (c) > (d) =
9. D
10. 436, 438, 440, 442
11. (a)



(b)



12. (a) 12 (b) 15
    (c) 9 (d) 6

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13. (a) 389

$$\begin{array}{r} 365 \\ +\ 24 \\ \hline 389 \end{array}$$

(b) 929

$$\begin{array}{r} 217 \\ +712 \\ \hline 929 \end{array}$$

14. (a) 512

$$\begin{array}{r} 538 \\ -\ 26 \\ \hline 512 \end{array}$$

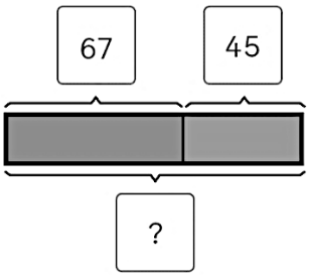
(b) 204

$$\begin{array}{r} 485 \\ -281 \\ \hline 204 \end{array}$$

15. B

16. C

17.



67 + 45 = 112

112

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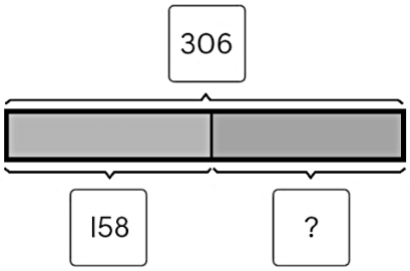
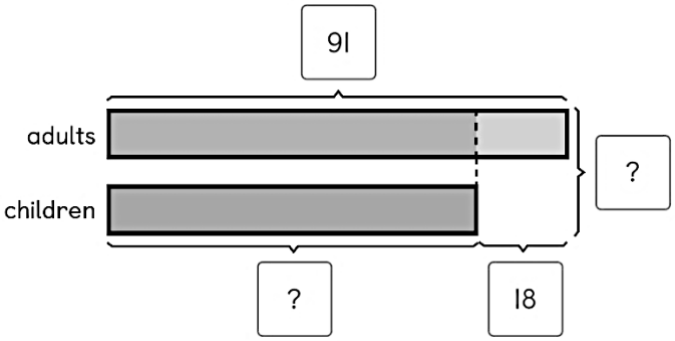
18.



306 – 158 = 148

148

19.



(a) 91 – 18 = 73

73

(b) 91 + 73 = 164

164

20. C

21. 5, 30, 30

22. 6, 6, 6, 6, 18, 18

23. (a) 24, 6 (b) 35, 7

24. 3 x 8 = 24

24 ÷ 8 = 3

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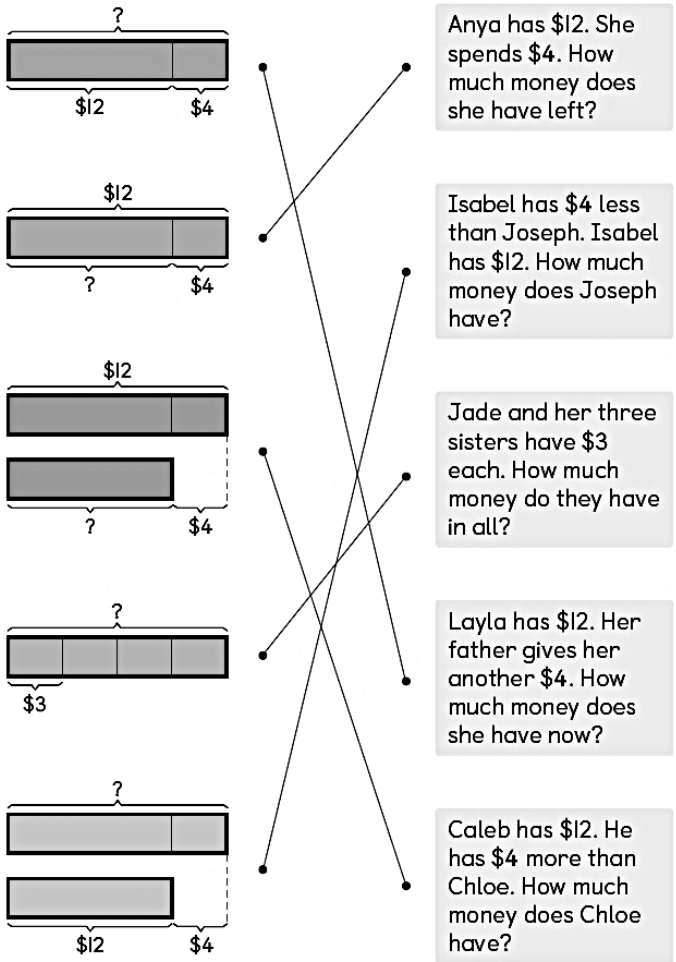
25.



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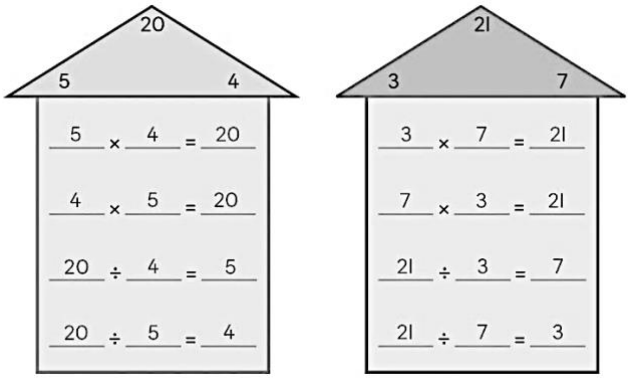
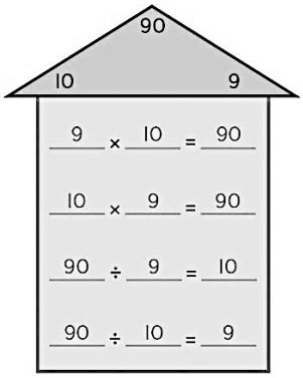
26.





27. (a) past (b) to

28. (a) 3:05 (b) 12:40

29. (a) 7:45 a.m.

(b) 7:10 p.m.

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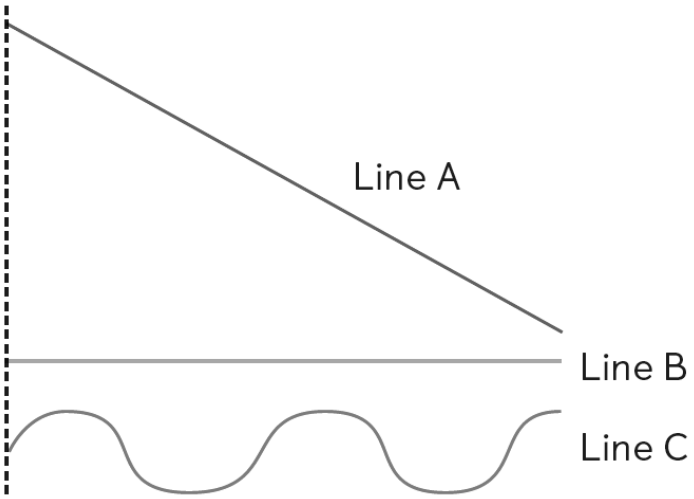
Primary Mathematics
Placement Test

3B

Name: _____ Date: _____

Placement Test for
Primary Mathematics 3B

1. Which line is the longest? Which is the shortest? [5]



Measure the lines.

Length of Line A: _____ cm

Length of Line B: _____ cm

Length of Line C: _____ cm

Longest: Line _____ Shortest: Line _____

2. Circle the correct length for each object. [4]

(a) Length of a book 26 cm or 26 m

(b) Height of a door 2 cm or 2 m

(c) Length of a baseball bat 2 in. or 2 ft

(d) Width of a backpack 17 in. or 17 yd

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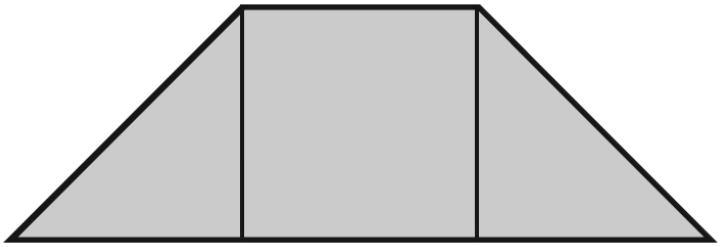
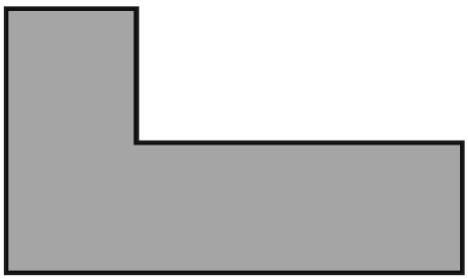
3. A square and two triangles are put together to make this shape. [1]



Use a square and two triangles to make another shape.

4. Draw a line in the shape to show a rectangle and a square. [1]



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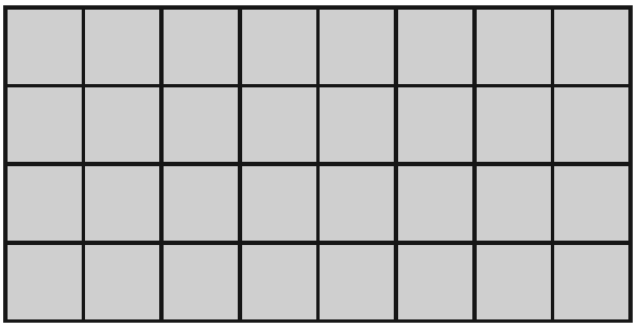
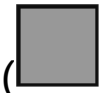
5. Multiply.

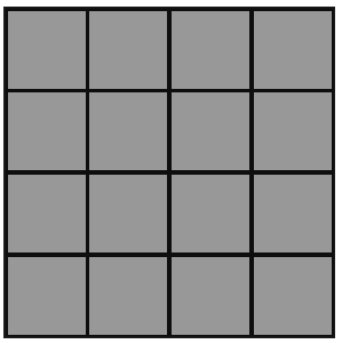
How many small squares () are there? [1]



4 x 8 = _____

6. Multiply.

How many small squares () are there? [1]



4 x 4 = _____

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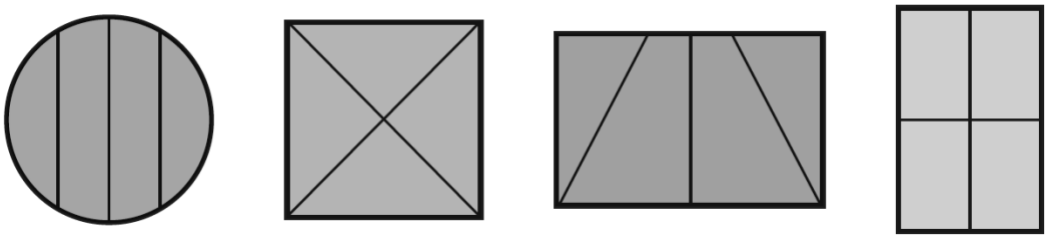
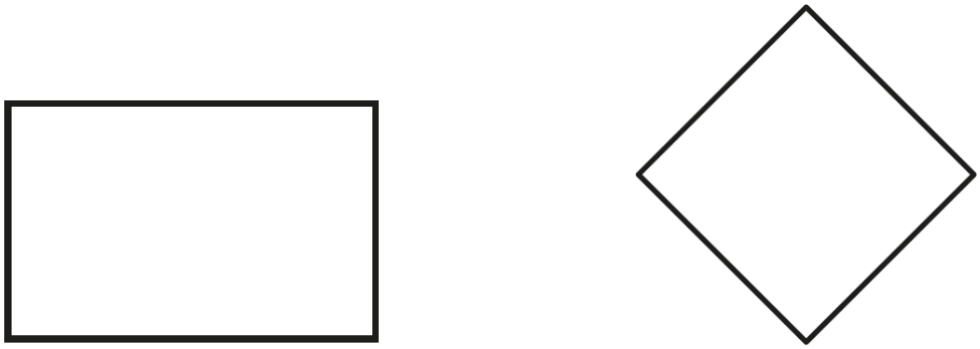
7. Which shapes are divided into fourths?

Circle the correct answers. [2]



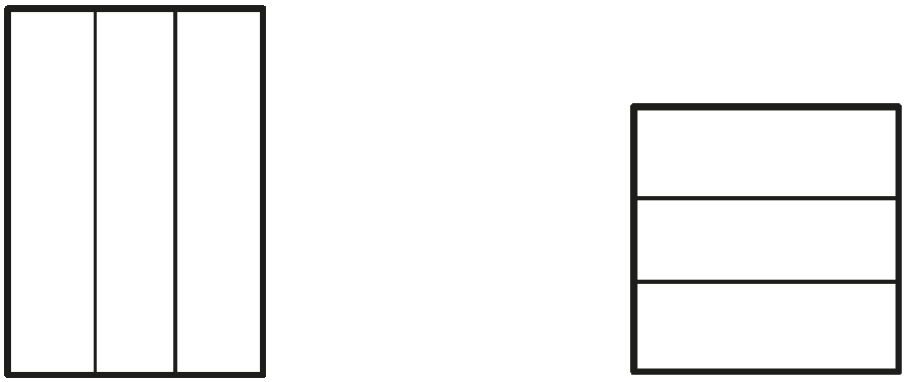
8. Divide each shape into halves. [2]

(a) (b)



9. Color a third of each shape. [2]

(a) (b)



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Name: _____ Date: _____

10. Write **heavier** or **lighter**. [2]

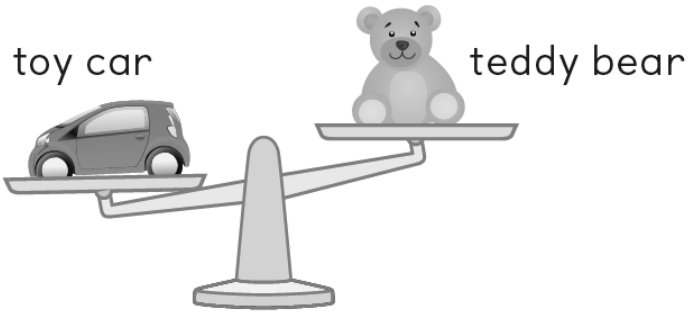
(a)

The cow is _____ than the duck.

(b)

The cat is _____ than the goat.

11. Look at the picture. [2]



(a) The _____ is heavier than the _____.

(b) The _____ is lighter than the _____.

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12. Circle the item that is heavier. [3]

(a) An apple or a pumpkin?

(b) An orange or a feather?

(c) A jar full of beans or a jar full of cotton?

13. Which glass has more water? [1]

Glass A Glass B

(A) Glass A (B) Glass B

(C) Glasses A and B have the same amount of water.

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Name: _____ Date: _____

14. Which jug has more juice? [1]

Jug C Jug D

(A) Jug C (B) Jug D

(C) Jugs C and D have the same amount of juice.

15. Which bottle has less water? [1]

Bottle E Bottle F

Bottle _____ has less water than Bottle _____.

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16. The tally chart below shows the ways in which some third graders travel to school. [6]

Way to Get to School	Tally
Walk	𝍸 |
Bike	|||
Car	𝍸 |
School Bus	𝍸 |||

(a) Use the data in the tally chart to complete the picture graph.

Ways Third Graders Travel to School

Walk	
Bike	● ● ●
Car	
School Bus	
Key: Each ● represents 1 child.	

Fill in the blanks.

(b) _____ children walk to school.

(c) The least number of children travel to school by _____.

(d) A total _____ of children travel to school by bike or car.

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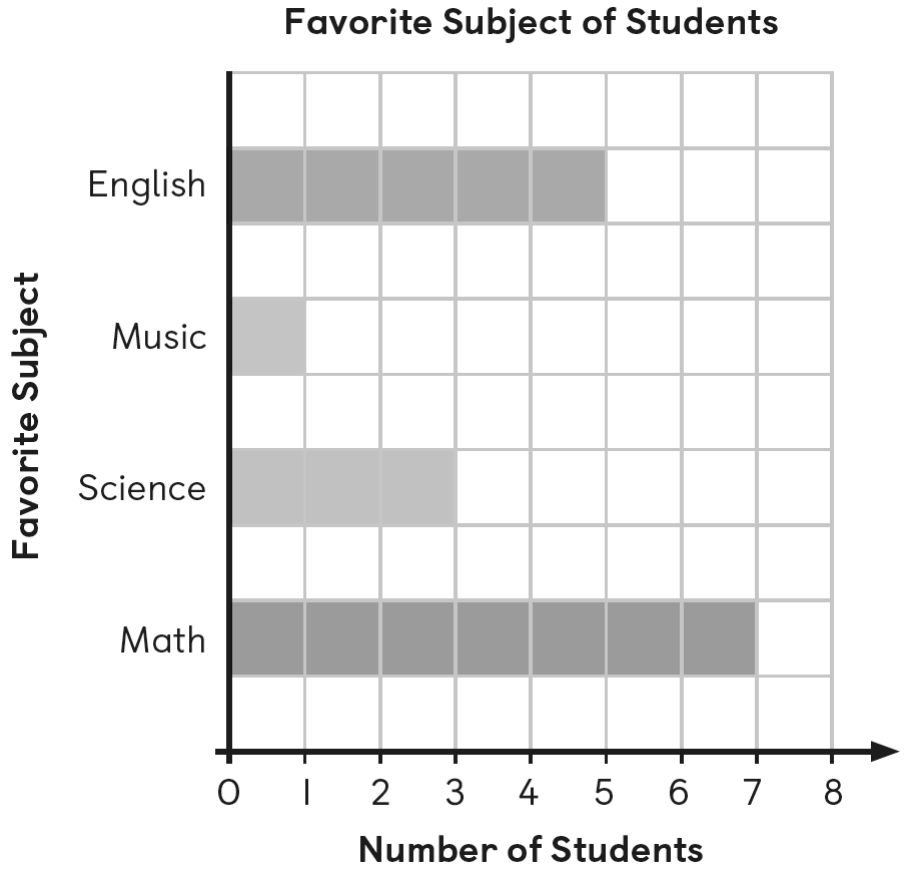
Name: _____ Date: _____

17. A group of students were asked to select their favorite subject. The bar graph shows the data. [4]



Fill in the blanks.

(a) _____ students selected English.

(b) _____ was the most popular subject among the students.

(c) _____ students selected the most popular subject.

(d) A total of _____ students were asked to select their favorite subject.

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18. Kiera measured the lengths of some pencils to the nearest centimeter and recorded the results in a table. [4]

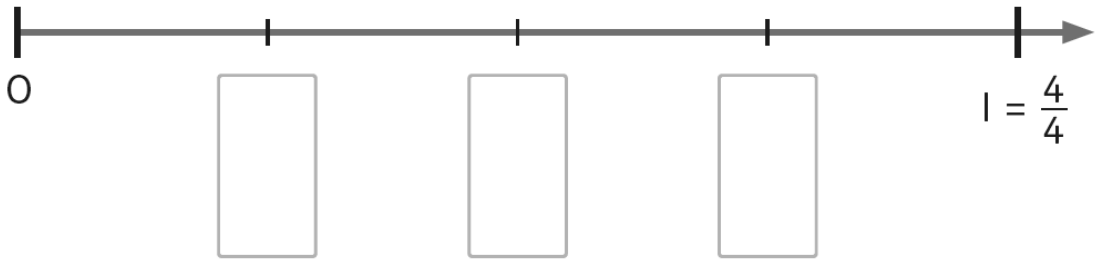
Length of Pencil (centimeters)	10	11	12	13
Number of Pencils	2	3	1	2

Show the data on a line plot.

Length of Pencils

Length (centimeters)

19. Fill in the correct fractions on the number line. [3]



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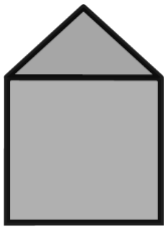
Name: _____ Date: _____

20. Name the shapes used to make the figures. [4]

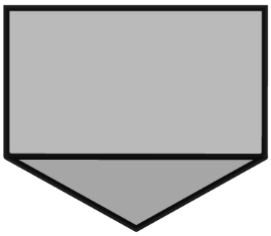
(a)



_____

_____

(b)

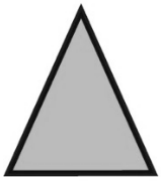


_____

_____

21. How many angles are there in each shape? [2]

(a)

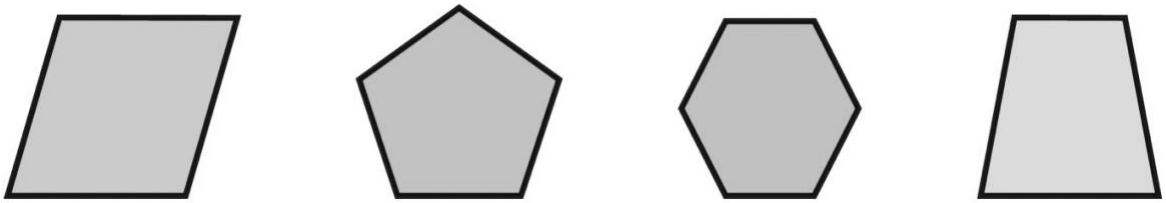


_____

(b)

_____

22. Circle the shapes that are quadrilaterals. [2]



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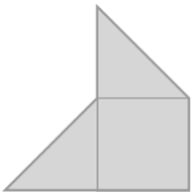
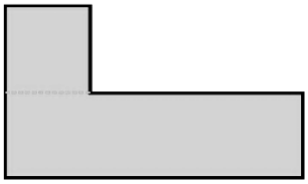
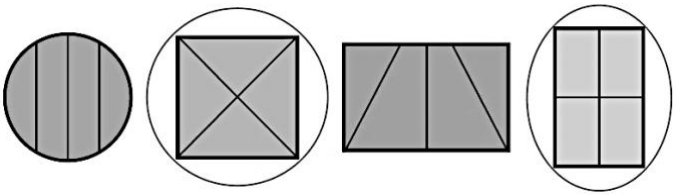
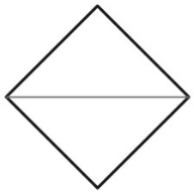
Name: _____ Date: _____

Answer Key

1. 8, 7, 9, C, B
2. (a) 26 cm (b) 2 m
   (c) 2 ft (d) 17 in.
3. 
4. 
5. 32
6. 16
7. 
8. Answers vary. Example:
   (a)
   
   (b)
   

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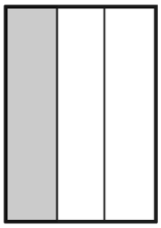
9. Answers vary. Example:

(a)



(b)

10. (a) heavier

(b) lighter

11. (a) toy car, teddy bear

(b) teddy bear, toy car

12. (a) pumpkin

(b) orange

(a) a jar full of beans

13. C

14. A

15. F, E

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16. (a)

Ways Third Graders Travel to School

Walk	○○○○○○
Bike	○○○
Car	○○○○○○
School Bus	○○○○○○○○
Key: Each ○ represents 1 child.	

(b) 6

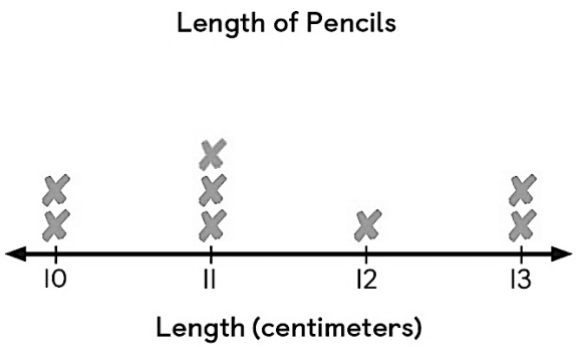
(c) bike

(d) 9

17. (a) 5 (b) Math

(c) 7 (d) 16

18.



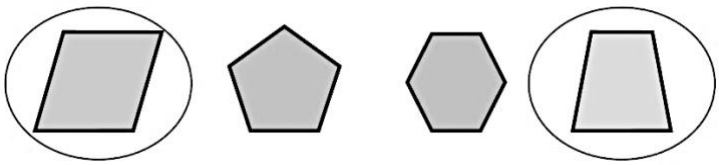
19. $\frac{1}{4}, \frac{2}{4}$ or $\frac{1}{2}, \frac{3}{4}$

20. (a) triangle, square

(b) rectangle, triangle

21. (a) 3 (b) 4

22.



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Primary Mathematics
Placement Test

4A

Name: _____ Date: _____

Placement Test for Primary Mathematics 4A

1. Which of the following is equal to 8,319? [1]

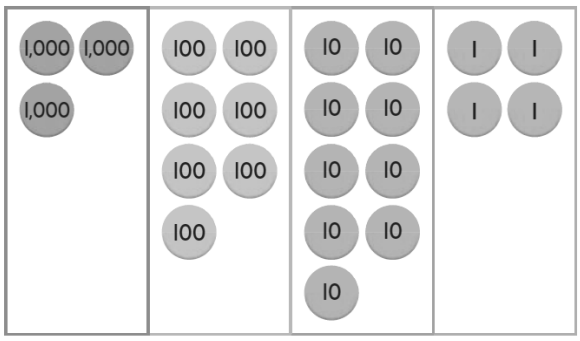
   (A) 8,000 + 100 + 30 + 9

   (B) 8,000 + 300 + 10 + 9

   (C) 800 + 300 + 100 + 9

   (D) 800 + 30 + 100 + 90

2. Count. [2]



   (a) Write the number in standard form. _____

   (b) Write the number in word form.

   _____

3. In 6,752, [4]

   (a) the value of the digit 6 is _____.

   (b) the digit _____ is in the hundreds place.

   (c) the digit 5 stands for _____.

   (d) the digit _____ is in the ones place.

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4. Write **<**, **=**, or **>**. [4]

(a) 4,180 ◯ 4,017

(b) 5,249 ◯ 5,942

(c) 1,306 + 100 ◯ 1,935

(d) 4,260 ◯ 3,260 + 1,000

5. Order the numbers from least to greatest. [4]

7,5ll 7,45l 8,52l 7,54l

_____, _____, _____, _____

least greatest

6. Write the missing numbers. [3]

(a) _____ is 10 more than 4,570.

(b) 6,452 is 100 less than _____.

(c) _____ is 1,000 less than 9,018.

7. Find the missing numbers in the number pattern. [2]

2,157, 2,147, 2,137, _____, 2,117, _____

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Name: _____ Date: _____

8. Round each number to the nearest ten. [2]

(a) 176 _____

(b) 2,645 _____

9. Round each number to the nearest hundred. [2]

(a) 604 _____

(b) 7,350 _____

10. Solve. [2]

(a) 8,997 + 1,003 (b) 8,621 – 4,365

11. Sara and Noah have a total of 3,256 game cards. Sara has 1,379 game cards. How many more game cards does Noah have than Sara? [3]

Noah has _____ more game cards than Sara.

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12. There were 2,906 adults at a concert. There were 59 fewer children than adults at the concert. How many people were at the concert in all? [3]

There were _____ people at the concert in all.

13. 5 children bought a pair of socks each. They paid $20 altogether. What was the cost of each pair of socks? [1]

(A) $2 (B) $3
(C) $4 (D) $5

14. Write the missing numbers. [6]

(a) 4 × 7 = _____ (b) 9 × 8 = _____

(c) _____ × 5 = 50 (d) 4 × _____ = 24

(e) 18 ÷ 6 = _____ (f) 81 ÷ 9 = _____

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Solve. Show your work.

15. Adam packed 42 toy cars into boxes of 6 each. He took 4 minutes to pack each box. How much time did Adam take in all? [2]

16. What is the sum of 256,147 and 541,502? [1]

(A) 285,355
(B) 286,000
(C) 797,600
(D) 797,649

17. What is the product of 2,196 and 4? [1]

(A) 8,784
(B) 4,392
(C) 2,192
(D) 549

18. Add or subtract. Show your work. [4]

(a) 364,597 + 207,842
= _____

(b) 620,756 – 315,974
= _____

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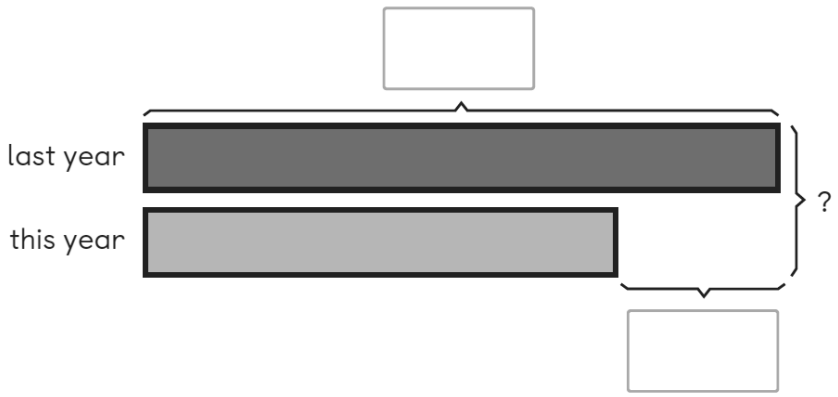
19. Divide. Show your work. [4]

(a) 1,864 ÷ 4 = _____ (b) 2,097 ÷ 7 = _____

$4\overline{)1\,8\,6\,4}$ $7\overline{)2\,0\,9\,7}$

Solve. Show your work.

20. A clothing supplier produced 384,162 T-shirts last year. This year, it produced 120,409 fewer T-shirts than last year. How many T-shirts did the supplier produce in the two years? [3]



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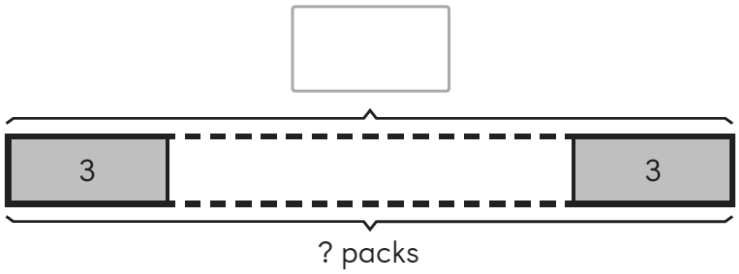
21. Some students made 4,740 greeting cards to sell for charity. They bundled the cards equally in packs of 3. Each pack was sold for $4. How much money could they raise for charity? [3]



22. Which number is a common multiple of 2 and 3? [1]

(A) 2
(B) 3
(C) 4
(D) 6

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23. (a) Color to show the fractions. [6]

$\frac{3}{6}$ 

$\frac{2}{3}$ 

$\frac{1}{4}$ 

$\frac{2}{8}$ 

$\frac{1}{2}$ 

$\frac{3}{4}$ 

(b) Which fractions are equal? [2]

_____ and _____ _____ and _____

(c) Write < or >. [2]

$\frac{1}{4}$ ◯ $\frac{3}{4}$ $\frac{2}{3}$ ◯ $\frac{2}{8}$

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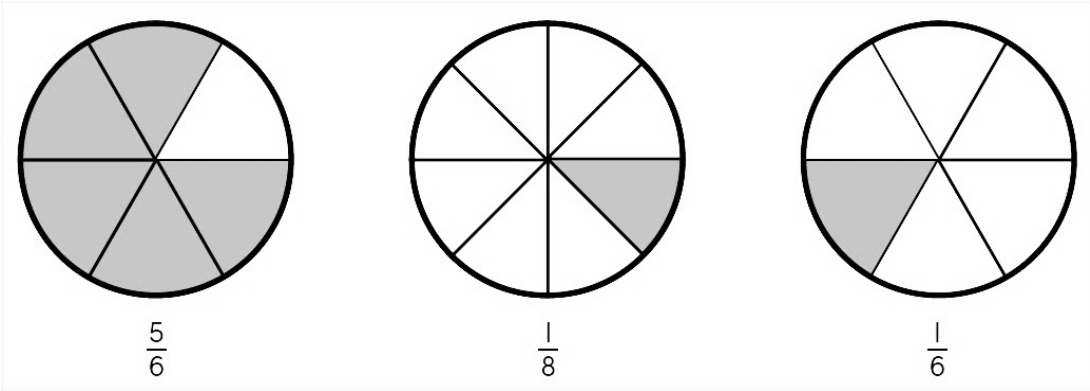
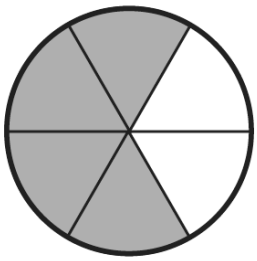
24. Order the fractions from least to greatest. [3]



_____, _____, _____

least greatest

25. Write the missing fractions. [3]

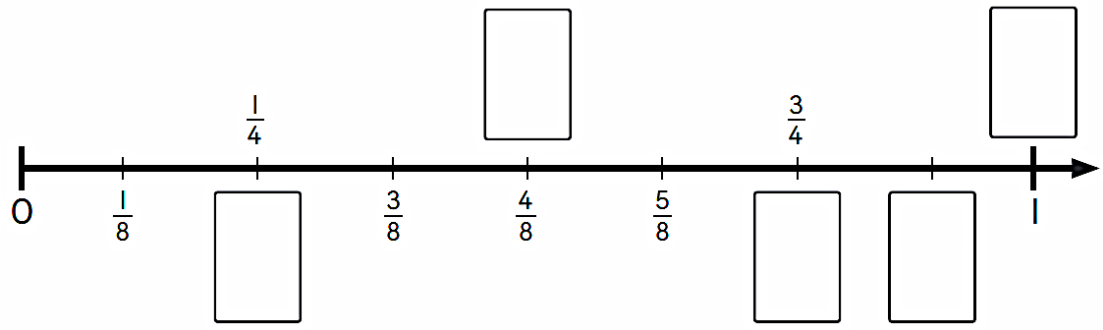


_____ of the shape is shaded.

_____ of the shape is not shaded.

_____ and _____ make 1 whole.

26. Write the missing fractions on the number line. [5]



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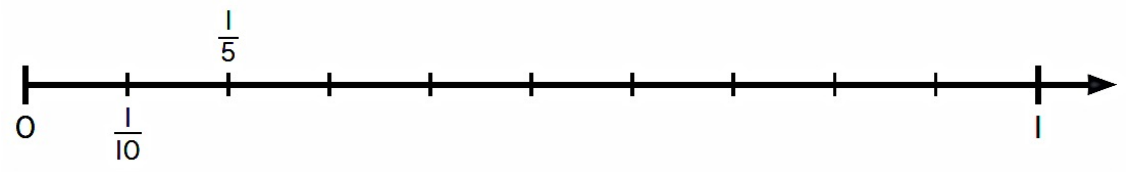
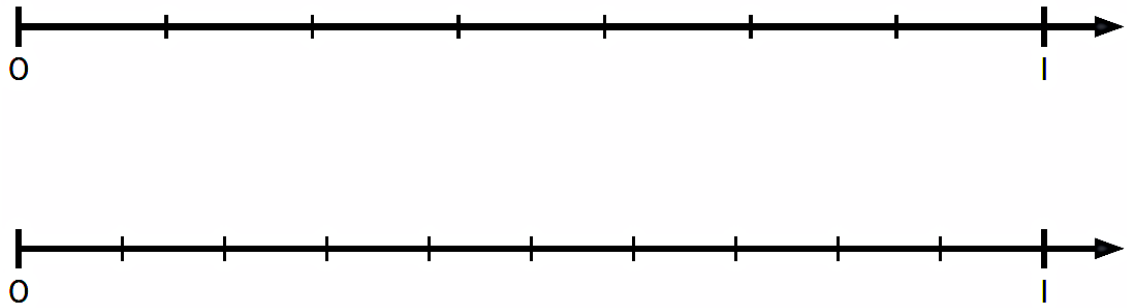
27. Write $\frac{3}{5}$, $\frac{7}{10}$, and $\frac{1}{2}$ on the number line. [3]



28. (a) Write $\frac{4}{7}$ and $\frac{4}{10}$ on the number lines. [2]



(b) Write **<** or **>**. [1]

$\frac{4}{7}$ ◯ $\frac{4}{10}$

29. Which two statements are correct? [2]

(A) The denominator of $\frac{3}{10}$ is 10.

(B) The numerator of $\frac{4}{7}$ is 7.

(C) $\frac{2}{9}$ and $\frac{2}{5}$ are like fractions.

(D) $\frac{11}{8}$ is greater than 1 whole.

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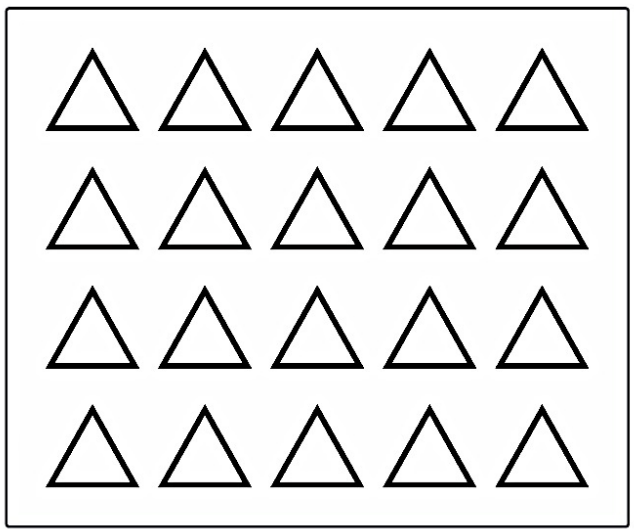
30. Add or subtract. Express your answers in simplest form. [2]

(a) $\frac{5}{8}+\frac{1}{8}$ (b) $\frac{11}{12}-\frac{4}{12}$

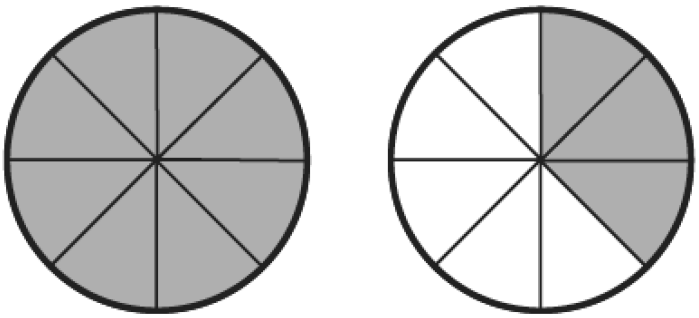
31. Color to find the value of each fraction of the set. [2]



$\frac{3}{5}$ of 20 = _____

$\frac{2}{5}$ of 20 = _____

32. How many eighths are there? [1]



$\frac{\quad}{8}$

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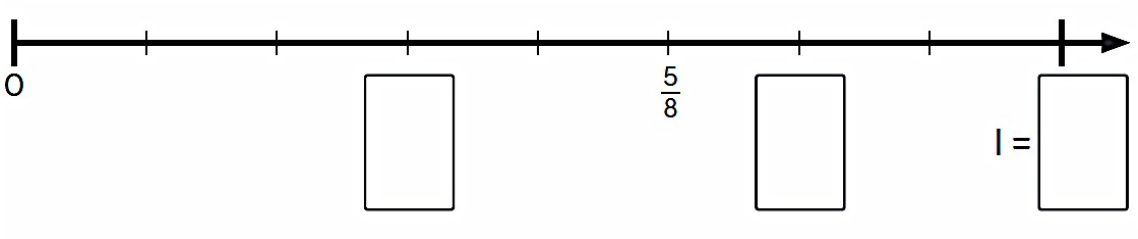
33. Write the missing fractions on the number line. [3]

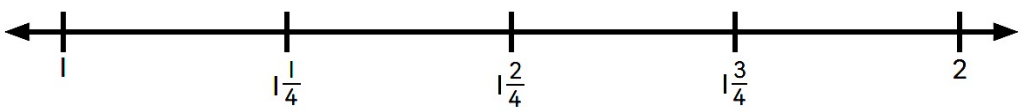


34. Karina has some paper strips in different lengths. The tally chart shows the number of paper strips she has. [3]

Length (inches)	Number of Paper Strips
$1\frac{1}{4}$	𝍸
$1\frac{2}{4}$	𝍸 ||
$1\frac{3}{4}$	
2	|||

Make a line plot to show the data.

Length of Paper Strips



Length (inches)

Key: Each ✘ represents 1 paper strip.

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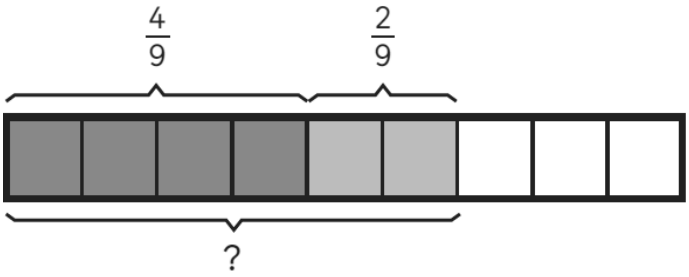
35. Kiara painted of a wall. Joseph painted of the same wall.

What fraction of the wall did they paint altogether?

Express your answer in simplest form. [2]



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Answer Key

1. B

2. (a) 3794

   (b) three thousand, seven hundred ninety-four

3. (a) 6,000 (b) 7

   (c) 50 (d) 2

4. (a) > (b) <

   (c) < (d) =

5. 7,451, 7,511, 7,541, 8,521

6. (a) 4,580 (b) 6,552

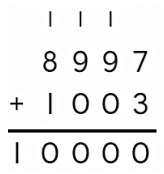
   (c) 8,018

7. 2,127, 2,107

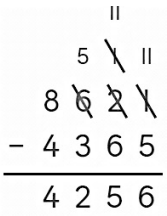
8. (a) 180 (b) 2,650

9. (a) 600 (b) 7,400

10. (a) 10,000



   (b) 4,256



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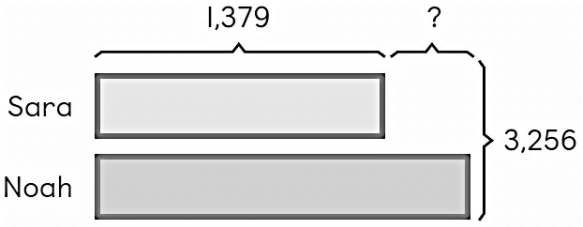
11.



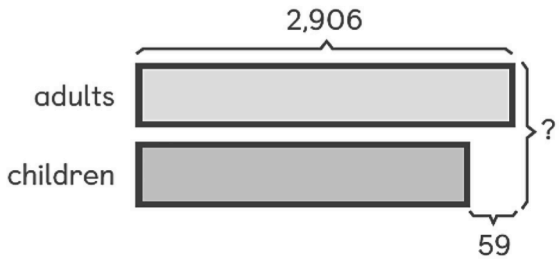
3,256 – 1,379 = 1,877

Noah has 1,877 game cards.

1,877 – 1,379 = 498

498

12.



2,906 – 59 = 2,847

There were 2,847 children.

2,906 + 2,847 = 5,753

5,753

13. C

14. (a) 28 (b) 72

(c) 10 (d) 6

(e) 3 (f) 9

15. 42 ÷ 6 = 7

There were 7 boxes of toy cars.

7 × 4 = 28

Adam took 28 minutes in all.

16. D

17. A

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18. (a) 572,439

$$\begin{array}{r} {\scriptstyle 1\ 1\ 1\ \ } \\ 364597 \\ +\ 207842 \\ \hline 572439 \end{array}$$

(b) 304,782

$$\begin{array}{r} {\scriptstyle \ \ 9\ 16\ \ } \\ {\scriptstyle 1\ \not{1}\not{0}\ \not{6}\ 15} \\ 62\not{0}7\not{5}6 \\ -\ 31597\,4 \\ \hline 304782 \end{array}$$

19. (a) 466

$$\begin{array}{r} 466 \\ 4\overline{)1864} \\ \underline{16\ \ } \\ 26 \\ \underline{24\ \ } \\ 24 \\ \underline{24\ \ } \\ 0 \end{array}$$

(b) 299 R4

$$\begin{array}{r} 299\ \text{R}4 \\ 7\overline{)2097} \\ \underline{14\ \ } \\ 69 \\ \underline{63\ \ } \\ 67 \\ \underline{63\ \ } \\ 4 \end{array}$$

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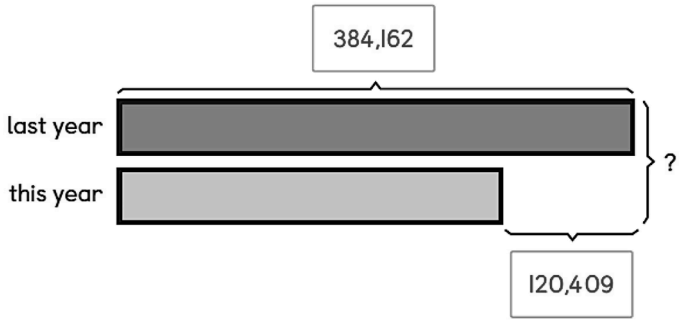
20.



384,162 – 120,409 = 263,753

This year, the supplier produced 263,753 T-shirts.

263,753 + 384,162 = 647,915

The supplier produced 647,915 T-shirts in the two years.

21.

4,740 ÷ 3 = 1,580

There were 1,580 packs of greeting cards.

1,580 × 4 = 6,320

They could raise $6,320 for charity.

22. D

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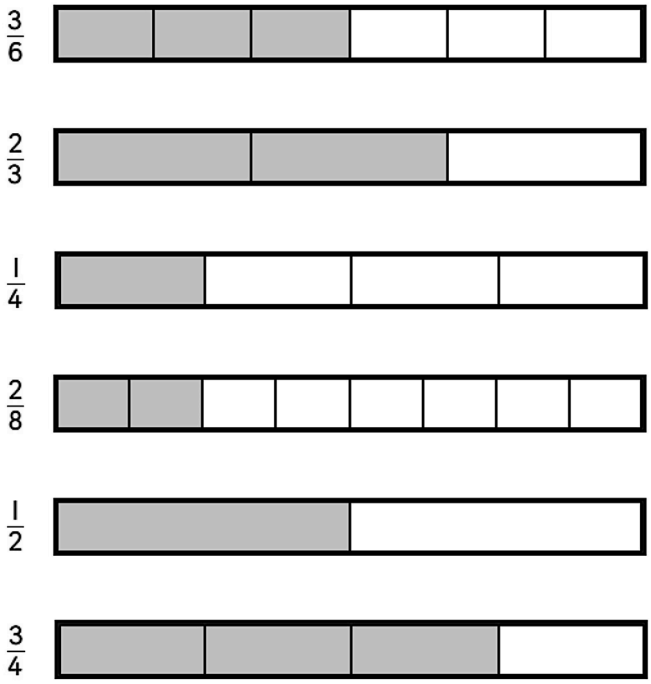
23. (a)



(b) $\frac{3}{6}$, $\frac{1}{2}$

$\frac{1}{4}$, $\frac{2}{8}$

(c) <

>

24. $\frac{1}{8}$, $\frac{1}{6}$, $\frac{5}{6}$

25. $\frac{4}{6}$

$\frac{2}{6}$

$\frac{4}{6}$, $\frac{2}{6}$

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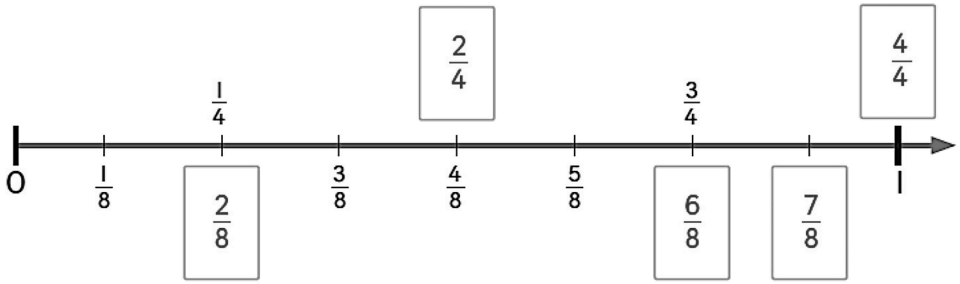
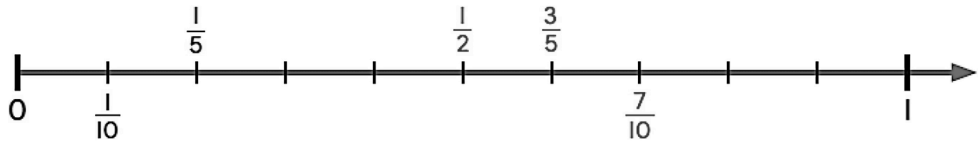
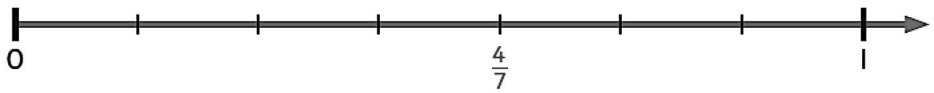
26.

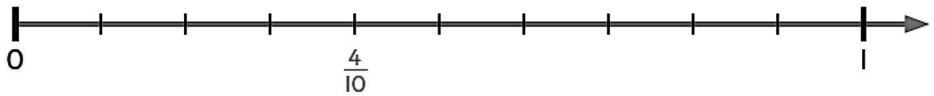


27.



28. (a)





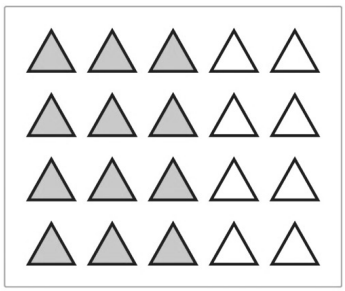
(b) >

29. A and D

30. (a) $\frac{6}{8}$, $\frac{3}{4}$

(b) $\frac{7}{12}$

31.



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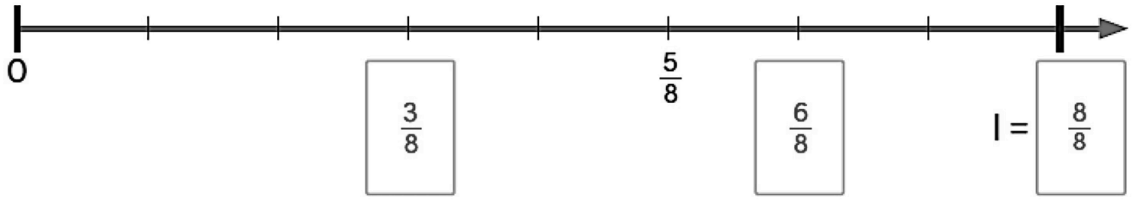
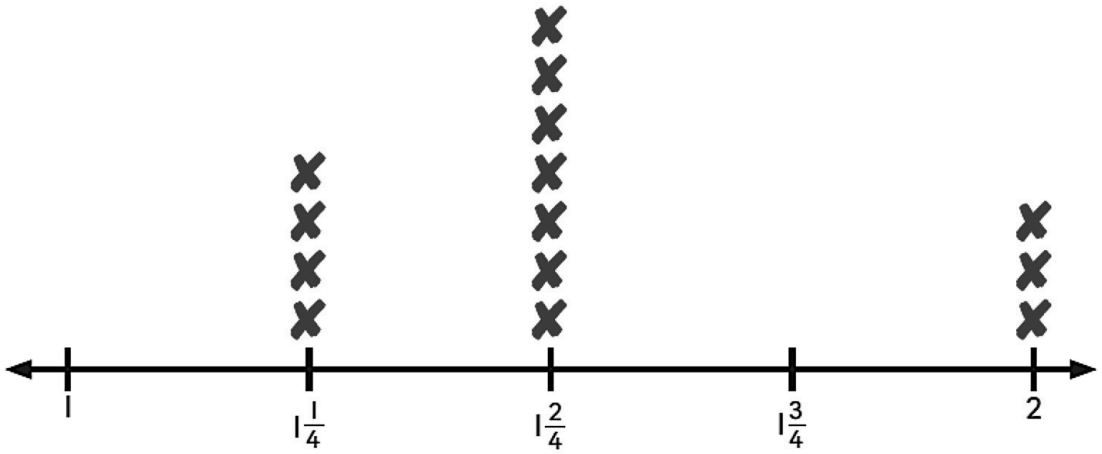
12, 8

32. 11

33.



34.



35. $\frac{4}{9}+\frac{2}{9}=\frac{6}{9}$

$=\frac{2}{3}$

They painted $\frac{2}{3}$ of the wall altogether.

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Primary Mathematics
Placement Test

4B

Name: _____ Date: _____

Placement Test for Primary Mathematics 4B

1. What is the value of the digit 6 in 726,089? [1]

(A) 60 (B) 600

(C) 6,000 (D) 60,000

2. Which fractions are equivalent to $\frac{4}{5}$?

Choose the **two** correct answers. [2]

(A) $\frac{1}{5}$ (B) $\frac{8}{10}$

(C) $\frac{12}{16}$ (D) $\frac{80}{100}$

3. How much money is there? [2]

(a)

_____ cents

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(b)

$_____

4. Order the numbers from least to greatest. [2]

318,092 310,892 308,921

_____, _____, _____

least greatest

5. Complete the pattern. Write the rule. [3]

125, 145, 165, 185, _____, _____

Rule: _____

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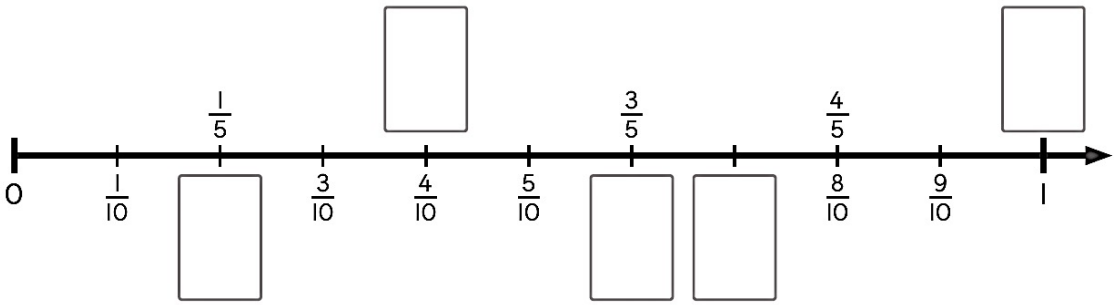
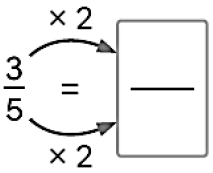
6. Write the missing fractions on the number line. [5]

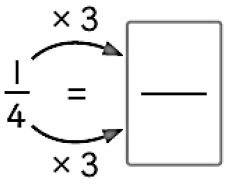


7. Write the missing numbers. [4]

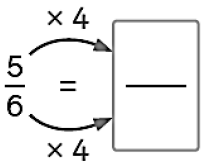
(a)



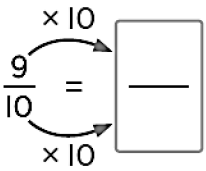
(b)



(c)



(d)



8. Express the fractions in simplest form. [4]

(a) $\frac{8}{10}$ = _____

(b) $\frac{12}{60}$ = _____

(c) $1\frac{15}{25}$ = _____

(d) $4\frac{60}{100}$ = _____

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9. What is the area of Figure A? [1]

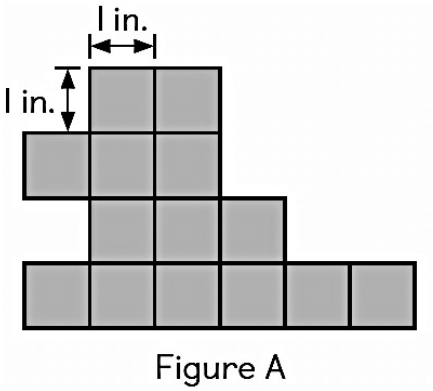

Figure A

(A) 12 square in.
(B) 14 square in.
(C) 16 square in.
(D) 18 square in.

10. What is the perimeter of Figure A? [1]

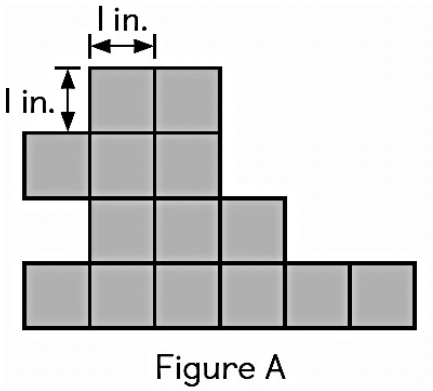

Figure A

(A) 26 inches
(B) 24 inches
(C) 22 inches
(D) 20 inches

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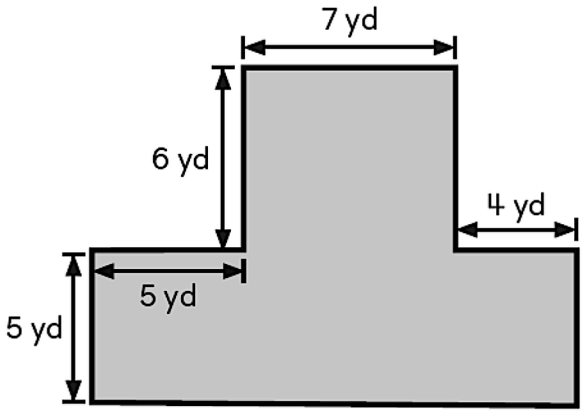
11. Find the area and perimeter of the rectangular garden. [2]

12. Divide the figure into two rectangles. Then find the area of the figure.

[4]



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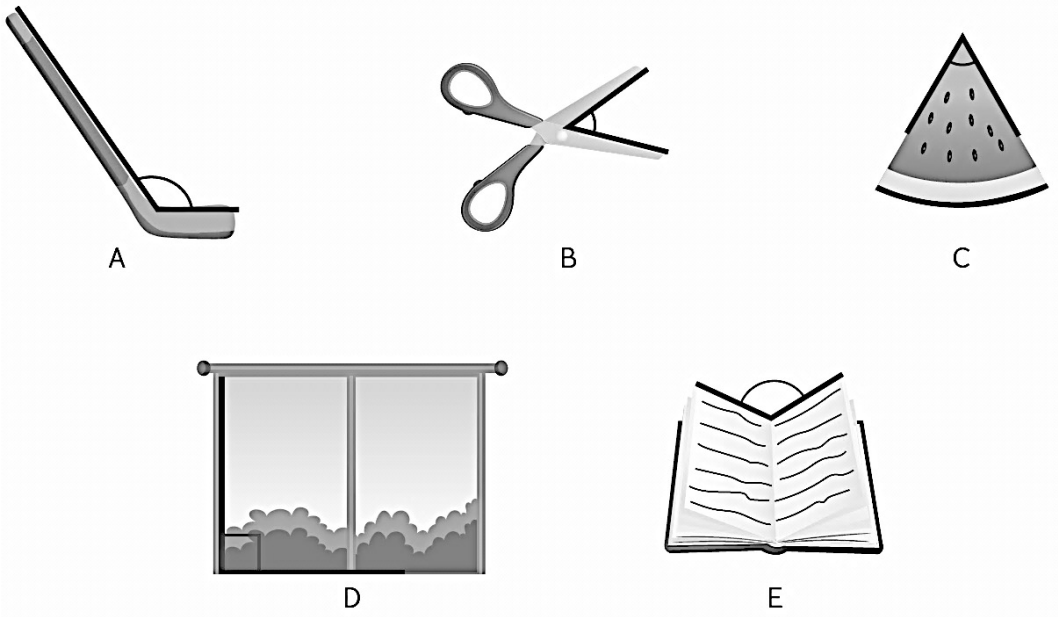
13. Which of the following explain why a rhombus is a quadrilateral? [2]

(A) It has 4 sides.
(B) It has 2 equal sides.
(C) It has 4 angles.
(D) It has 4 right angles.

14. Compare the angles on these objects. [3]



Complete the table to sort the angles.

Smaller than a right angle	Right angle	Larger than a right angle

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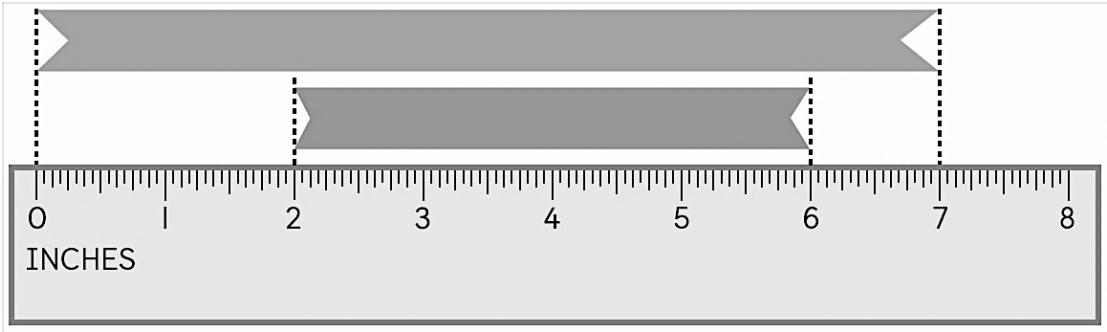
15. [4]



The length of the blue ribbon is _____ inches.

The length of the red ribbon is _____ inches.

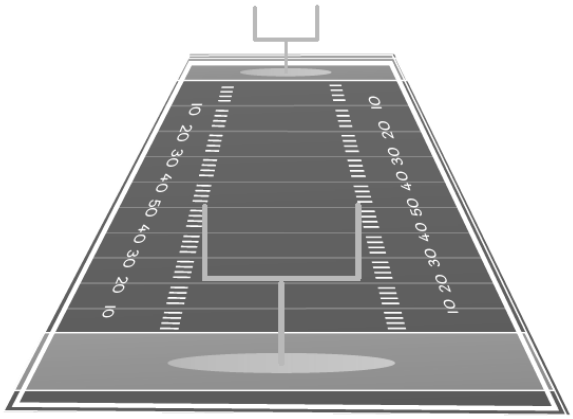
The total length of the two ribbons is _____inches.

The difference in length between the two ribbons

is _____ inches.

16. Write **feet** or **yards**. [2]

(a)



The width of a football field is about 53 _____.

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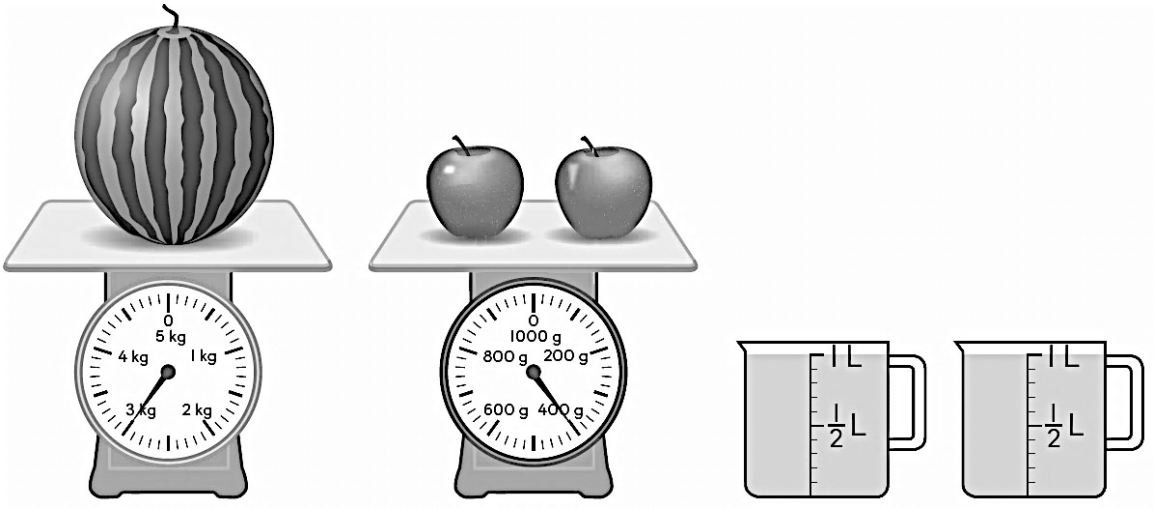
(b)

The length of a bicycle is about 6 _____.

17. Measure each of the following. [3]



_____ kg _____ g _____ L

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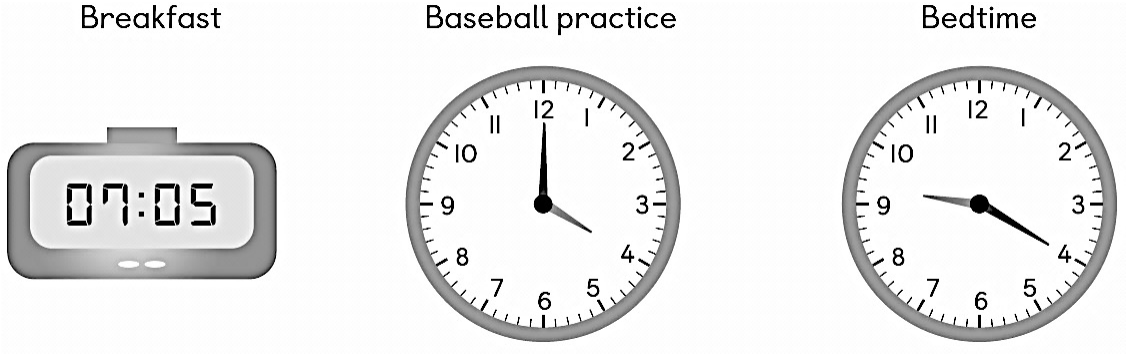
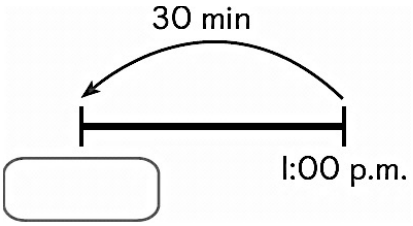
18. Write the time of Juan's activities using **a.m.** or **p.m.** [3]



_____ _____ _____

19. Michael read a book for 30 minutes. He stopped reading at 1:00 p.m. What time did Michael start reading the book? [1]



He started reading at _____

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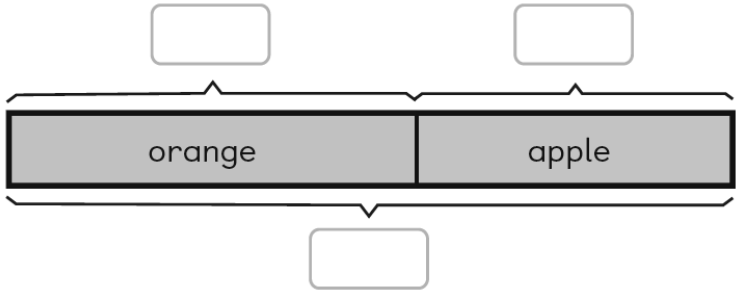
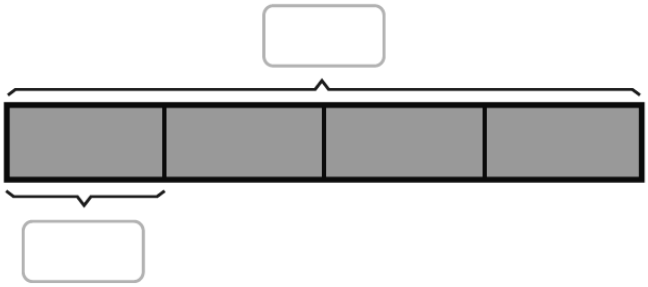
20. The mass of an orange is 350 grams. The mass of an apple is 225 grams. What is the total mass of the orange and apple? [3]



_____ _____ = _____

The total mass of the orange and apple is _____ grams.

21. Mr. Young had to fill an aquarium with 300 liters of water. He used 4 identical pails of water to fill the aquarium. What is the capacity of each pail? [3]



_____ _____ = _____

The capacity of each pail is _____ liters.

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Answer Key

1. C

2. B and D

3. (a) 9 (b) 117

4. 308,921, 310,892, 318,092

5. 205, 225

   Start with 125, add 20.

6. $\frac{2}{10}, \frac{2}{5}, \frac{6}{10}, \frac{7}{10}, \frac{5}{5}$

7. (a) $\frac{6}{10}$ (b) $\frac{3}{12}$

   (c) $\frac{20}{24}$ (d) $\frac{90}{100}$

8. (a) $\frac{4}{5}$ (b) $\frac{1}{5}$

   (c) $1\frac{3}{5}$ (d) $4\frac{3}{5}$

9. B

10. C

11. $13 \times 6 = 78$

    The area of the garden is 78 square meters.

    $13 + 6 + 13 + 6 = 38$

    The perimeter of the garden is 38 meters.

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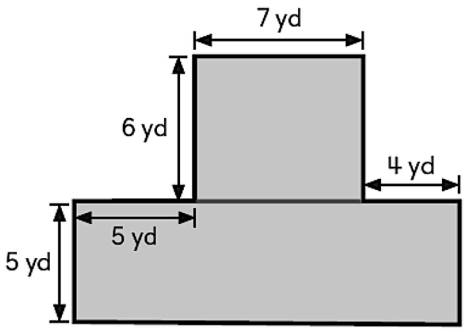
12.



7 × 6 = 42

5 + 7 + 4 = 16

16 x 5 = 80

42 + 80 = 122

The area of the figure is 122 square yards.

13. A and C

14. B and C

D

A and E

15. 7, 4, 11, 3

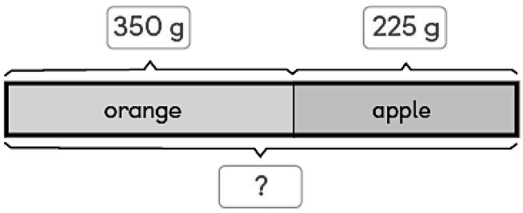
16. (a) yards (b) feet

17. 3, 400, 2

18. 7:05 a.m., 4:00 p.m., 9:20 p.m.

19. 12:30 p.m.

20.



350 + 225 = 575

575

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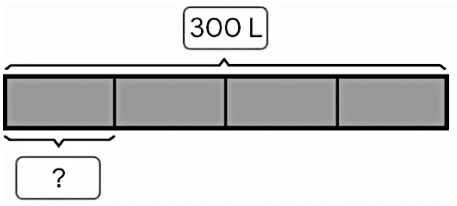
21.



300 ÷ 4 = 75

75

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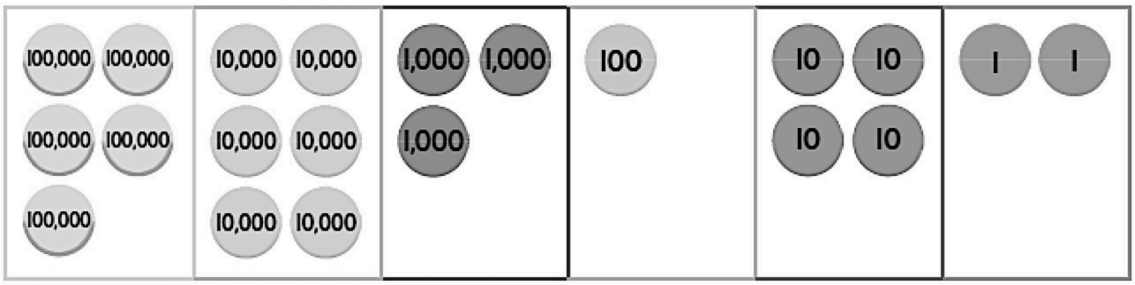
Primary Mathematics
Placement Test

5A

Name: _____ Date: _____

Placement Test for Primary Mathematics 5A

1. What number is shown? [1]



(A) 536,142

(B) 561,342

(C) 563,124

(D) 563,142

2. Write the numbers in standard form. [2]

(a) three hundred fifty-one thousand, two hundred nineteen

_____

(b) six hundred twenty-three thousand, eighty-five

_____

3. Write the numbers in word form. [2]

(a) 708,402

_____

(b) 890,006

_____

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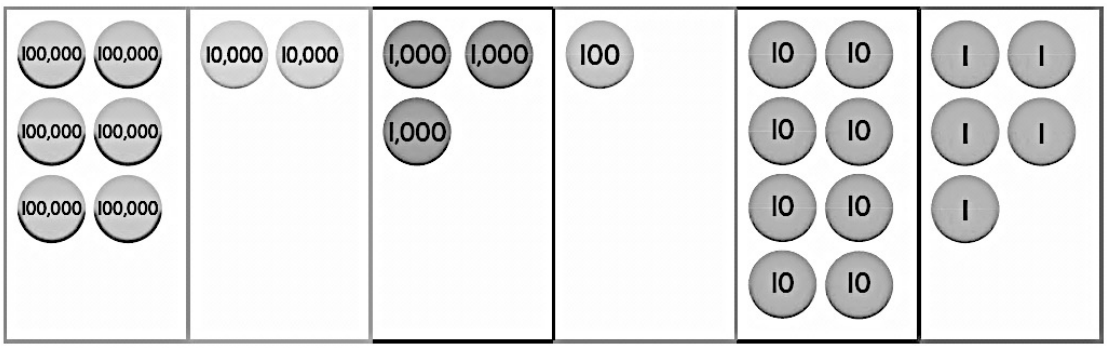
Name: _____ Date: _____

4. Write the numbers in expanded form. [2]

(a) 246,195 = _____ + _____ + _____ +
_____ + _____ + _____

(b) 307,689 = _____ + _____ + _____ +
_____ + _____

5. [6]



Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
6	2	3	1	8	5

In 623,185,

(a) the digit 6 is in the _____ place.

(b) the digit 2 has a value of _____.

(c) the value of the digit 3 is _____.

(d) the digit 1 is in the _____ place.

(e) the digit 8 has a value of _____.

(f) the value of the digit 5 is _____.

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6. Fill in the blanks. [2]

(a) $12 \times 10 =$ _____

(b) $56 \times$ _____ $= 560$

7. Multiply. [4]

(a) $22 \times 4 =$ _____

$22 \times 40 =$ _____

(b) $32 \times 3 =$ _____

$32 \times 30 =$ _____

8. Which of the following are equal to $3 + 14 + 18$?

Choose two correct answers. [2]

(A) $3 + 1 + 4 + 1 + 8$ (B) $14 + 18 + 3$

(C) $18 + 3 + 14$ (D) $3 \times 14 \times 18$

9. Which of the following is equal to 12×15? [1]

(A) $15 + 12$ (B) 15×12

(C) $10 \times 2 \times 15$ (D) $15 \times 1 \times 2$

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10. Multiply or divide. [4]

(a) $67 \times 40 =$ _____

(b) $32 \times 12 =$ _____

(c) $845 \div 4 =$ _____

(d) $1{,}235 \div 6 =$ _____

11. Which number is a common multiple of 3 and 6? [1]

(A) 3 (B) 9

(C) 12 (D) 15

12. Which two fractions are equivalent to $\frac{5}{8}$? [2]

(A) $\frac{12}{15}$ (B) $\frac{10}{13}$

(C) $\frac{10}{16}$ (D) $\frac{25}{40}$

13. Which two statements are true? [2]

(A) $\frac{7}{8}$ and $\frac{5}{8}$ are like fractions.

(B) $\frac{7}{8}$ and $\frac{5}{8}$ have like numerators.

(C) $3\frac{3}{4}$ is a mixed number.

(D) $\frac{2}{9}$ and $\frac{5}{9}$ have unlike denominators.

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14. Fill in the blanks. [2]

(a) $\frac{2}{3} = \frac{\square}{9}$ (b) $\frac{4}{5} = \frac{\square}{25}$

15. Write the improper fractions as mixed numbers in simplest form. [2]

(a) $\frac{18}{7}$ = _____ (b) $\frac{32}{6}$ = _____

16. Write the mixed numbers as improper fractions. [2]

(a) $2\frac{5}{6}$ = _____ (b) $3\frac{4}{7}$ = _____

17. Add. Write the answers in simplest form. [4]

(a) $\frac{1}{5} + \frac{3}{5}$ (b) $\frac{7}{12} + \frac{11}{12}$

(c) $3\frac{2}{9}$
$+ 1\frac{1}{9}$

(d) $2\frac{13}{15}$
$+ 2\frac{8}{15}$

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18. Subtract. Write the answers in simplest form. [4]

(a) $\frac{8}{9} - \frac{4}{9}$

(b) $3 - \frac{3}{10}$

(c) $3\frac{13}{14}$
$-\ 1\frac{9}{14}$

(d) $5\frac{4}{15}$
$-\ 3\frac{7}{15}$

19. For a recycling campaign, Katelyn used $1\frac{1}{8}$ meters of string to tie some old magazines. Aiden used $1\frac{3}{8}$ meters of string to tie some newspapers. How much string did they use in all? [3]

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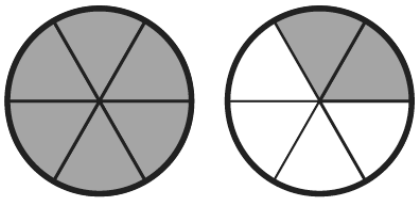
20. Which of these are equivalent fractions of $\frac{1}{3}$?

Choose the two correct answers. [1]

(A) $\frac{2}{6}$ (B) $\frac{4}{12}$

(C) $\frac{2}{4}$ (D) $\frac{3}{5}$

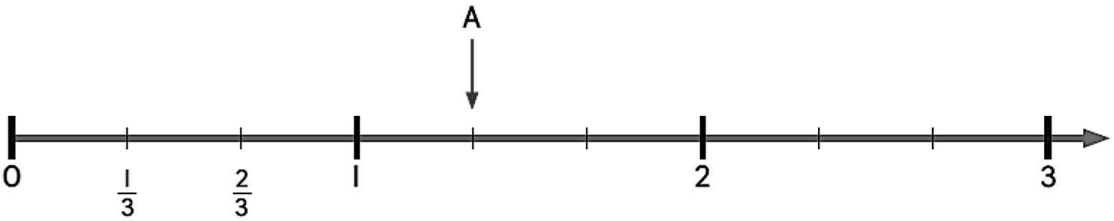
21. What fraction is represented by the fraction circles? [1]



(A) $\frac{12}{8}$ (B) $\frac{8}{6}$

(C) $\frac{8}{12}$ (D) $\frac{6}{12}$

22. What number does the letter A represent? [1]



(A) $\frac{1}{3}$ (B) $1\frac{1}{4}$

(C) $1\frac{1}{3}$ (D) $1\frac{4}{3}$

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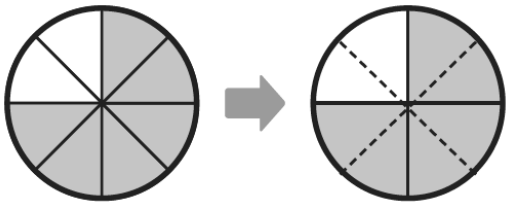
23. Express the fractions in simplest form. [2]

(a)

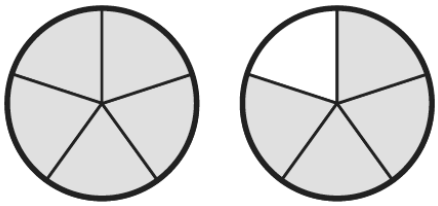


$\frac{6}{8}$ = _____

(b) $2\frac{6}{16}$ = _____

24. Express the mixed numbers as improper fractions. [2]

(a)



$1\frac{4}{5}$ = _____

(b) $2\frac{3}{7}$ = _____

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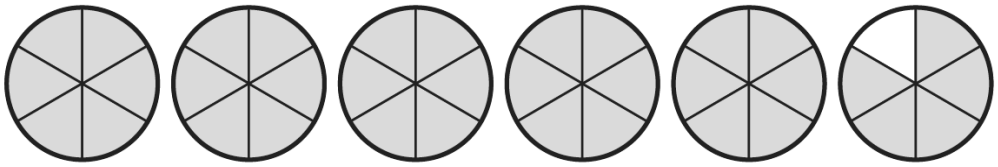
25. Express the improper fractions as mixed numbers. [2]

(a)



$\frac{35}{6}$ = _____

(b) $\frac{42}{5}$ = _____

26. Multiply. Express the products in simplest form. [2]

(a) $\frac{1}{4} \times 12$

(b) $\frac{3}{5} \times 20$

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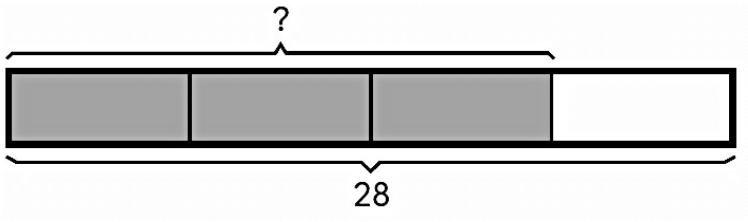
27. Alexander buys 28 apples. $\frac{3}{4}$ of the apples are red. How many apples are red? [1]



28. What is the sum of $\frac{3}{5}$ and $\frac{2}{3}$? [1]

(A) $\frac{5}{8}$

(B) $1\frac{4}{15}$

(C) $1\frac{3}{5}$

(D) $1\frac{5}{8}$

29. What is the difference between $4\frac{4}{9}$ and $1\frac{5}{6}$? [1]

(A) $1\frac{1}{3}$

(B) $2\frac{1}{3}$

(C) $2\frac{11}{18}$

(D) $3\frac{11}{18}$

30. What is the product of $\frac{6}{7}$ and $\frac{5}{9}$? [1]

(A) $\frac{10}{21}$

(B) $\frac{11}{21}$

(C) $\frac{11}{16}$

(D) $1\frac{1}{16}$

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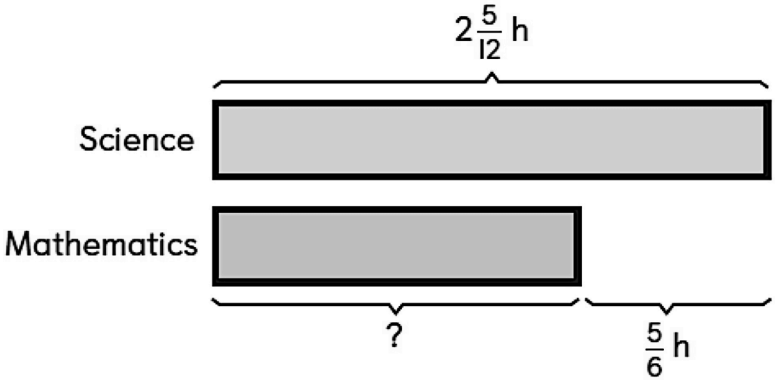
31. Divide. [2]

(a) $\frac{4}{9} \div 8$

(b) $4 \div \frac{1}{3}$

32. Audrey spent $2\frac{5}{12}$ hours on her Science project. She spent $\frac{5}{6}$ hour less on her Mathematics homework than the Science project. How much time did Audrey spend on her Mathematics homework? [1]



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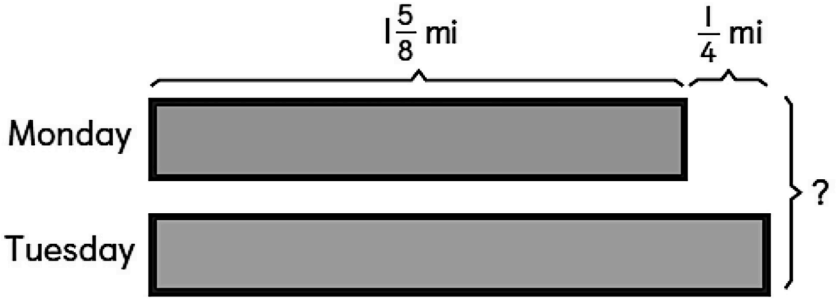
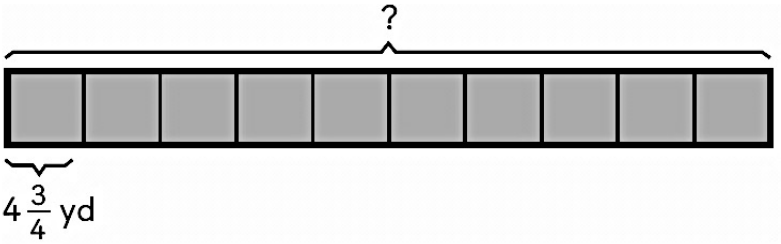
33. Emilio ran $1\frac{5}{8}$ miles on Monday. He ran $\frac{1}{4}$ mile more on Tuesday than on Monday. What was the total distance Emilio ran on Monday and Tuesday? [2]



34. Ms. Lewis used $4\frac{3}{4}$ yards of cloth to make a pet blanket.

How many yards of cloth did she use to make 10 pet blankets? [2]



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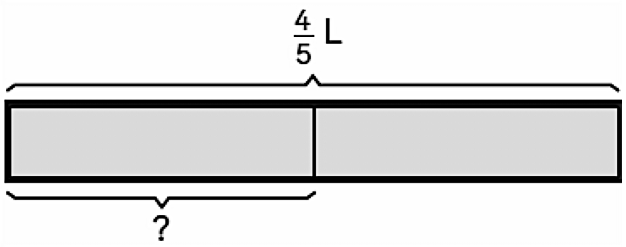
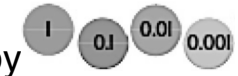
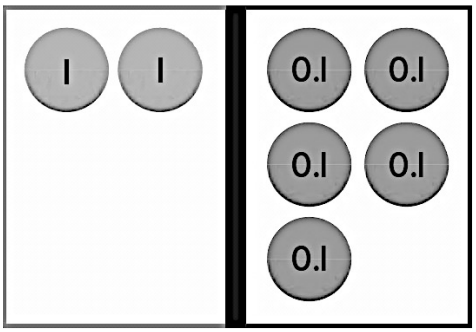
35. A water bottle has $\frac{4}{5}$ liter of water. The water is poured equally into 2 mugs. How much water is there in each mug? [2]



36. What is the decimal represented by 

? [1]



(A) 1.5
(B) 2.05
(C) 2.5
(D) 20.5

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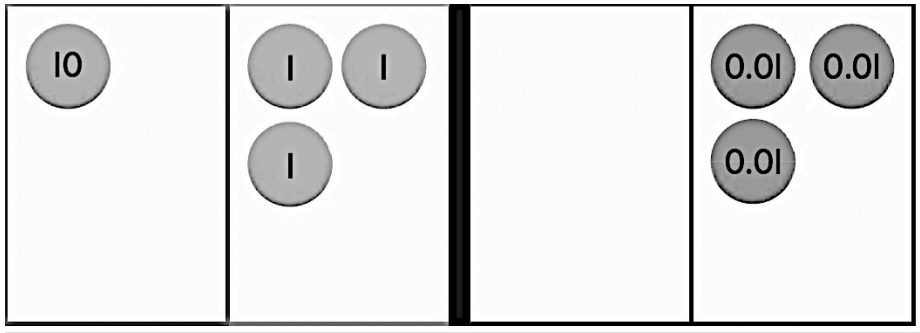
37. What is the decimal represented by 

? [1]



(A) 13.3
(B) 13.03
(C) 10.33
(D) 10.3

38. In 48.67, [4]

(a) the value of the digit 4 is _____.

(b) the digit 8 is in the _____ place.

(c) the digit 6 is in the _____ place.

(d) the digit 7 stands for _____.

39. Fill in the blanks. [3]

(a) 4.8 = 4 + _____

(b) 13.57 = 10 + 3 + _____ + _____

(c) _____ = 20 + 3 + 0.8 + 0.04

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40. Compare the decimals. Write **<**, **>**, or **=**. [4]

(a) 3.9 ◯ 8.1

(b) 12.80 ◯ 12.8

(c) 2.7 ◯ 2.68

(d) 14.13 ◯ 14.19

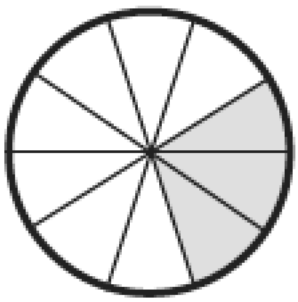
41. Order 14.6, 14.44, and 14.8 from least to greatest. [2]

_____, _____, _____

least greatest

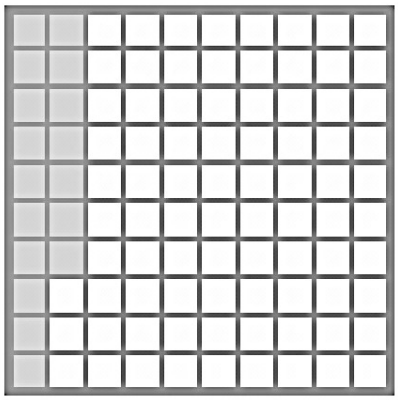
42. Write the numbers in decimal form. [2]

(a)



_____

(b)



_____

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43. Write the decimals as fractions in simplest form. [4]

(a) 0.5

(b) 11.6

(c) 3.28

(d) 27.14

44. Write the fractions as decimals. [4]

(a) $\frac{7}{10}$

(b) $\frac{19}{100}$

(c) $\frac{1}{5}$

(d) $\frac{16}{25}$

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Answer Key

1. D
2. (a) 351,219
   (b) 623,085
3. (a) seven hundred eight thousand, four hundred two
   (b) eight hundred ninety thousand six
4. (a) 200,000, 40,000, 6,000, 100, 90, 5
   (b) 300,000, 7,000, 600, 80, 9
5. (a) hundred thousands
   (b) 20,000
   (c) 3,000
   (d) hundreds
   (e) 80
   (f) 5
6. (a) 120 (b) 10
7. (a) 88, 880
   (b) 96, 960
8. B and C
9. B
10. (a) 2,680
    (b) 384
    (c) 211 R1
    (d) 205 R5
11. C
12. C and D
13. A and C
14. (a) 6 (b) 20
15. (a) $2\frac{4}{7}$ (b) $5\frac{1}{3}$
16. (a) $\frac{17}{6}$ (b) $\frac{25}{7}$

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17. (a) $\frac{4}{5}$

(b) $\frac{18}{12}$

$= \frac{3}{2}$

$= 1\frac{1}{2}$

(c) $4\frac{3}{9}$

$= 4\frac{1}{3}$

(d) $4\frac{21}{25}$

$= 5\frac{6}{15}$

$= 5\frac{2}{5}$

18. (a) $\frac{4}{9}$

(b) $2\frac{10}{10} - \frac{3}{10}$

$= 2\frac{7}{10}$

(c) $2\frac{4}{14}$

$= 2\frac{2}{7}$

(d)

$$\begin{array}{r} 4\frac{19}{15} \\ \cancel{5}\,\cancel{4}\,\frac{}{15} \\ -\ 3\frac{7}{15} \\ \hline 1\frac{12}{15} \end{array}$$

$= 1\frac{4}{5}$

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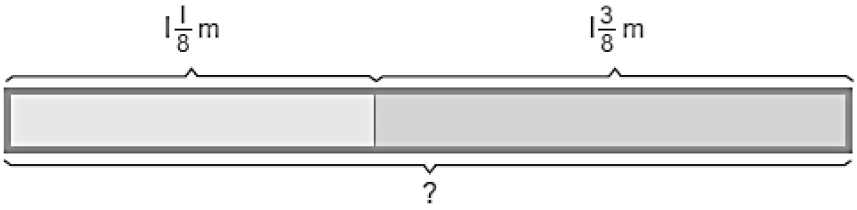
19.



$1\frac{1}{8} + 1\frac{3}{8} = 2\frac{4}{8}$

$= 2\frac{1}{2}$

They used $2\frac{1}{2}$ meters of string in all.

20. A and B

21. B

22. C

23. (a) $\frac{3}{4}$ (b) $2\frac{3}{8}$

24. (a) $\frac{9}{5}$ (b) $\frac{17}{7}$

25. (a) $5\frac{5}{6}$ (b) $8\frac{2}{5}$

26. (a) $\frac{12}{4}$

$= 3$

(b) $\frac{60}{5}$

$= 12$

27. $\frac{3}{4} \times 28 = 21$

21 apples are red.

28. B

29. C

30. A

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31. (a) $\frac{4}{9} \times \frac{1}{8}$

$= \frac{1}{18}$

(b) 4×3

$= 12$

32. $2\frac{5}{12} - \frac{5}{6} = 1\frac{7}{12}$

Audrey spent $1\frac{7}{12}$ hours on her Mathematics homework.

33. $1\frac{5}{8} + \frac{1}{4} = 1\frac{7}{8}$

Emilio ran $1\frac{7}{8}$ miles on Tuesday.

$1\frac{5}{8} + 1\frac{7}{8} = 3\frac{1}{2}$

The total distance Emilio ran was $3\frac{1}{2}$ miles.

34. $4\frac{3}{4} \times 10 = 4 \times 10 + \frac{3}{4} \times 10$

$= 40 + \frac{15}{2}$

$= 47\frac{1}{2}$

Ms. Lewis used $47\frac{1}{2}$ yards of cloth to make 10 pet blankets.

35. $\frac{4}{5} \div 2 = \frac{4}{5} \times \frac{1}{2}$

$= \frac{2}{5}$

There is $\frac{2}{5}$ liter of water in each mug.

36. C

37. B

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38. (a) 40

(b) ones

(c) tenths

(d) 0.07

39. (a) 0.8 (b) 0.5, 0.07 (c) 23.84

40. (a) < (b) =

(c) > (d) <

41. 14.44, 14.6, 14.8

42. (a) 0.3 (b) 0.17

43. (a) $\frac{5}{10}$

$= \frac{1}{2}$

(b) $11\frac{6}{10}$

$= 11\frac{3}{5}$

(c) $3\frac{28}{100}$

$= 3\frac{7}{25}$

(d) $27\frac{14}{100}$

$= 27\frac{7}{50}$

44. (a) 0.7

(b) 0.19

(c) $\frac{2}{10}$

= 0.2

(d) $\frac{64}{100}$

= 0.64

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Primary Mathematics
Placement Test

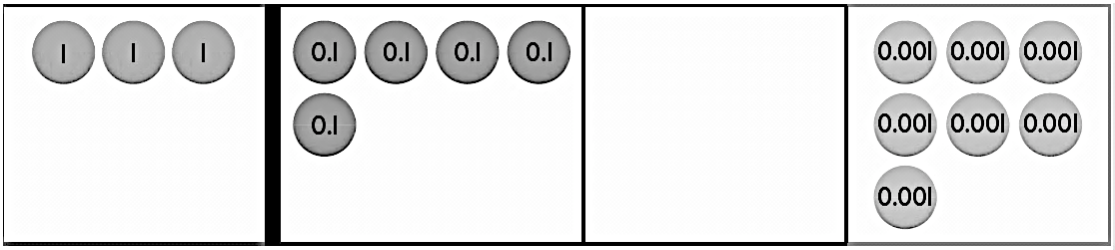
5B

Name: _____ Date: _____

Placement Test for Primary Mathematics 5B

1. What is the decimal represented by the 

? [1]



(A) 3.57 (B) 3.507

(C) 0.357 (D) 3.057

2. Express the fractions as decimals. [4]

(a) $\frac{1}{2}$ = _____ (b) $4\frac{1}{4}$ = _____

(c) $15\frac{3}{5}$ = _____ (d) $6\frac{7}{8}$ = _____

3. Express the decimals as fractions in simplest form. [4]

(a) 0.8 = _____ (b) 3.5 = _____

(c) 45.75 = _____ (d) 1.125 = _____

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4. Fill in the blanks. [3]

(a) 1 one = _____ tenths

(b) 4 tenths = _____ hundredths

(c) 8 hundredths = _____ thousandths

5. What is 16.03 + 3.56? [1]

Ⓐ 16.386 Ⓑ 19.59 Ⓒ 19.86 Ⓓ 51.63

6. What is 6.89 – 1.34? [1]

Ⓐ 5.55 Ⓑ 6.51 Ⓒ 6.756 Ⓓ 8.25

7. Multiply or divide. Show your work. [4]

(a) 13.26 × 40 = _____ (b) 0.6 ÷ 5 = _____

(c) 4.2 × 5.35 = _____ (d) 38.2 ÷ 4 = _____

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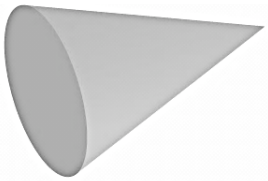
8. Fill in the blanks. [3]

(a) 1.5 km = _____ m

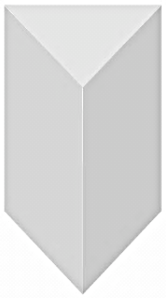
(b) 3,015 mL = _____ L

(c) 2.25 lb = _____ oz

9. Which of the following solids is a rectangular prism? [1]

(A) 

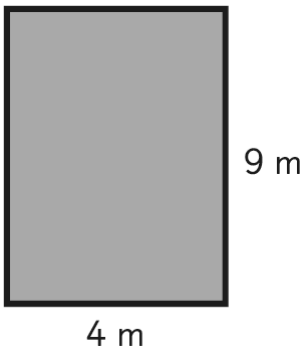
(B) 

(C) 

(D) 

10. Find the area. [2]

(a)



Area = _____ m^2

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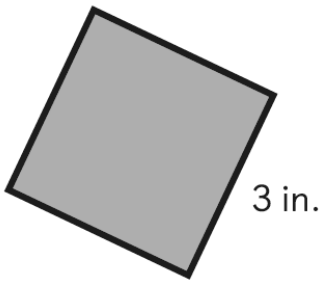
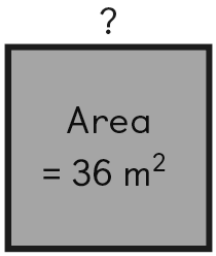
(b) The following figure is a square.



Area = _____ in^2

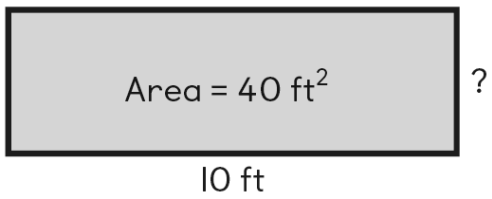
11. Find the missing side length. [2]

(a) The following figure is a square.



Side length = _____ m

(b)



Width = _____ ft

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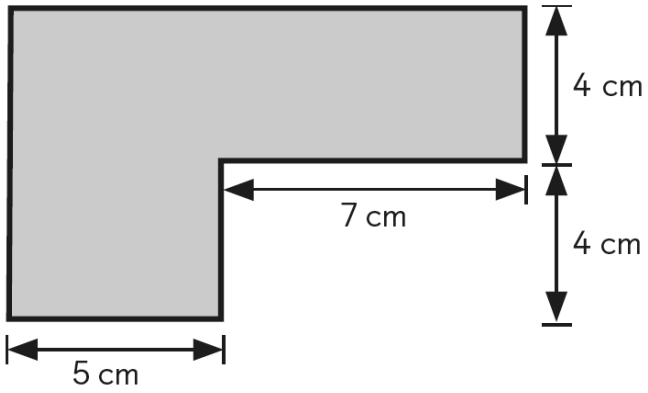
12. The composite figure is made up of two rectangles.

Find its area. [2]



13. Fill in the blanks. [2]

(a) 10^2 = _____ × _____

(b) 10^3 = _____ × _____ × _____

14. Multiply. [2]

(a) 13 × 4 = _____ (b) 22 × 15 = _____

15. Divide. [2]

(a) 84 ÷ 4 = _____ (b) 135 ÷ 3 = _____

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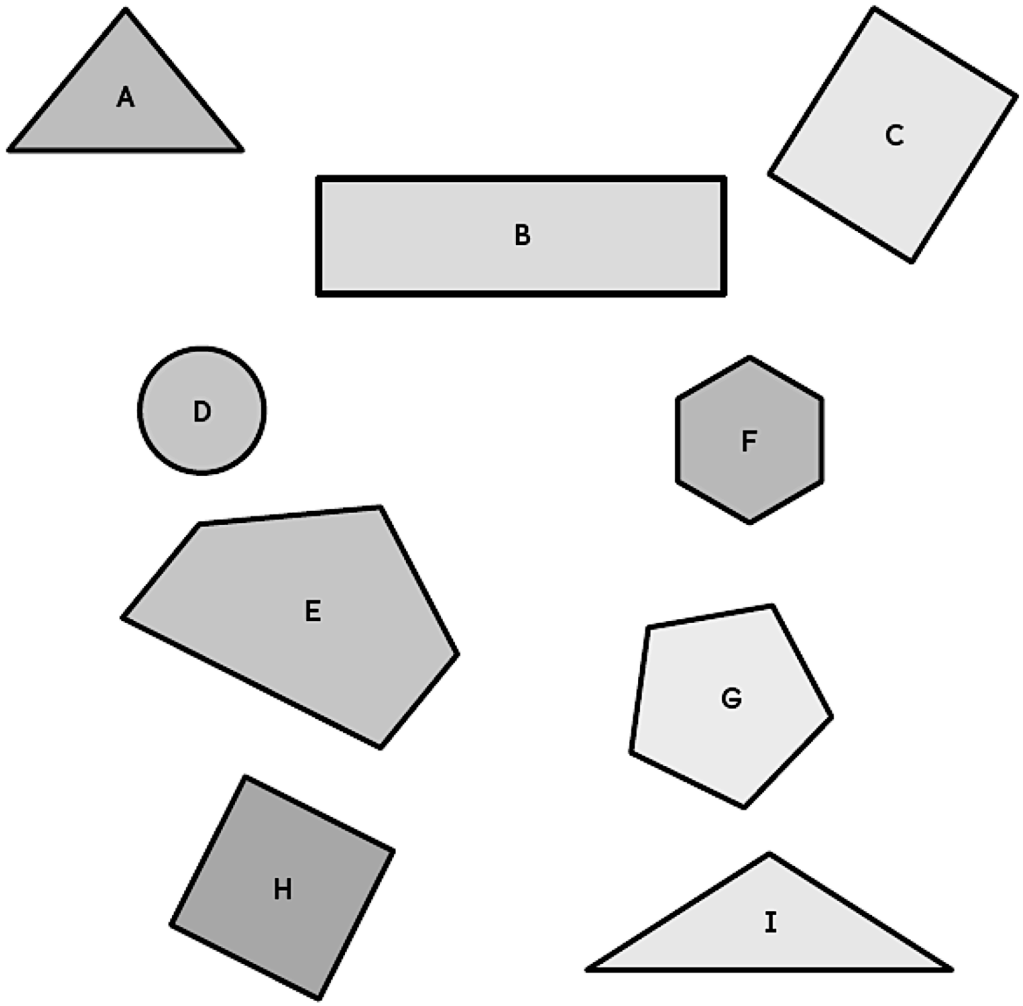
16. Identify the triangles and quadrilaterals. Then complete the table below with the letters of the shapes. [5]



Triangles	Quadrilaterals

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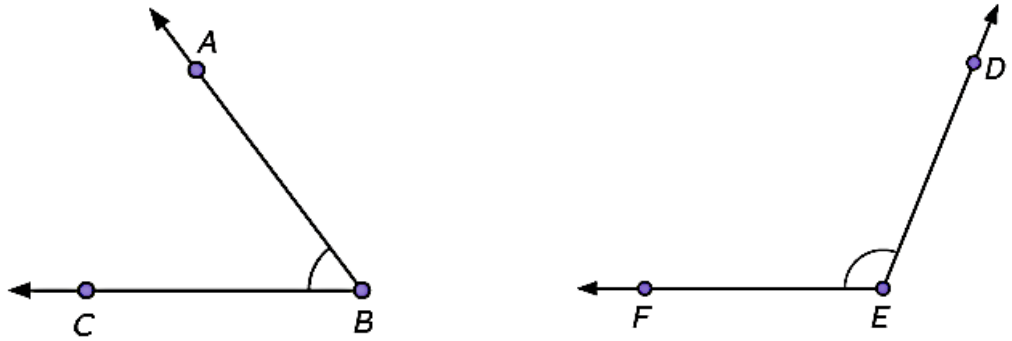
17. Measure the marked angles using a protractor. Fill in the blanks. [3]

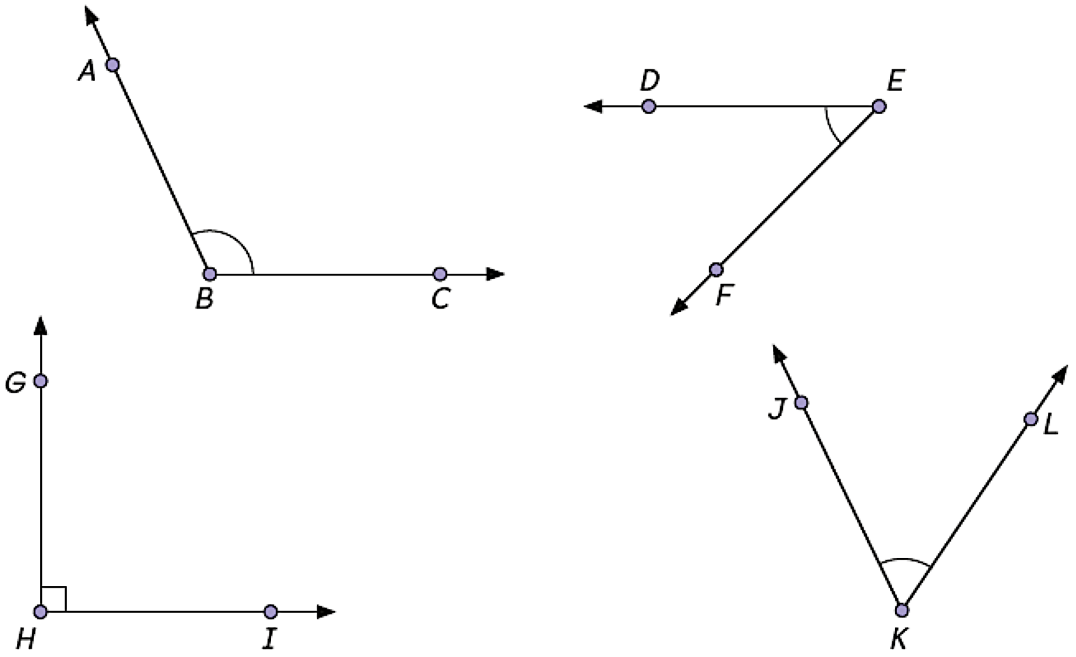
(a) (b)



$\angle ABC$ = _____ $\angle DEF$ = _____

$\angle ABC$ is an _____ angle.

18. Classify each marked angle as a right angle, an acute angle, or an obtuse angle. [4]



Right Angles	Acute Angles	Obtuse Angles

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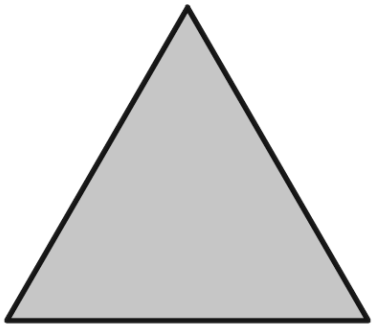
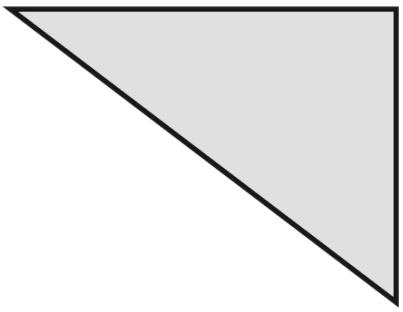
18. Identify the type of triangles. Write **right**, **acute**, or **obtuse**. [4]

(a)



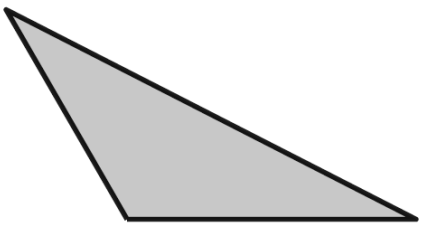
_____

(b)



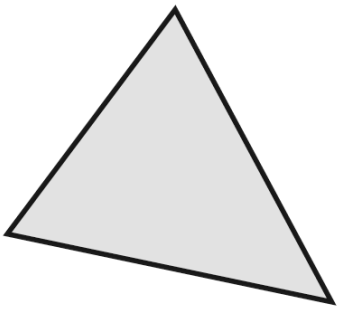
_____

(c)



_____

(d)



_____

19. What is the sum of $\frac{3}{4}$ and $\frac{5}{8}$? Choose the **two** correct answers. [2]

(A) $\frac{8}{12}$ (B) $\frac{11}{8}$ (C) $1\frac{3}{8}$ (D) $1\frac{1}{2}$

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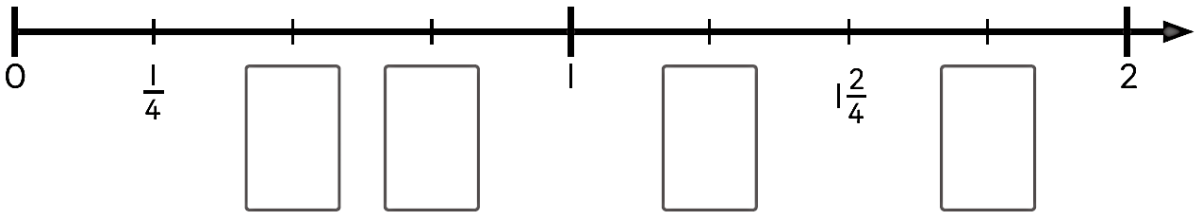
20. Find the difference between $\frac{7}{9}$ and $\frac{5}{6}$. [1]

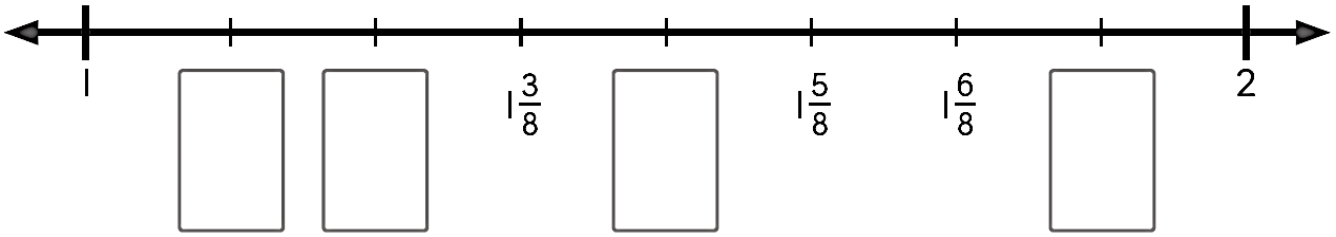
(A) $1\frac{11}{18}$ (B) $\frac{2}{3}$ (C) $\frac{2}{9}$ (D) $\frac{1}{18}$

21. Write the missing numbers. [2]

(a)



(b)



22. Multiply. [2]

(a) $\frac{7}{8} \times 4$ (b) $2\frac{3}{4} \times 6$

23. Divide. [2]

(a) $\frac{1}{8} \div 4$ (b) $1\frac{3}{4} \div 7$

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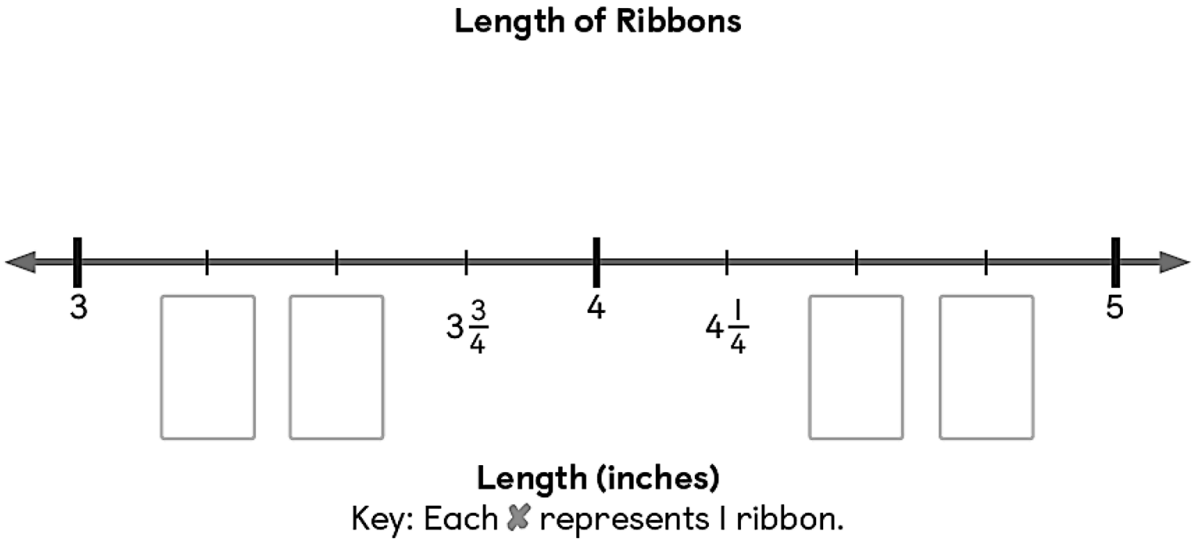
24. The lengths of eight ribbons are shown below. [6]

$3\frac{1}{4}$ in.	$4\frac{3}{4}$ in.	$3\frac{3}{4}$ in.	$3\frac{1}{4}$ in.	$4\frac{2}{4}$ in.	$4\frac{2}{4}$ in.	$4\frac{3}{4}$ in.	$4\frac{3}{4}$ in.

(a) Complete the line plot to show the data.



Use the line plot to answer the questions.

(b) Only one piece of ribbon has a length of _____ inches.

(c) The longest ribbon has a length of _____ inches.

(d) The shortest ribbon has a length of _____ inches.

(e) There are as many _____-inch ribbons as

_____-inch ribbons.

(f) _____ ribbons have a length less than 4 inches.

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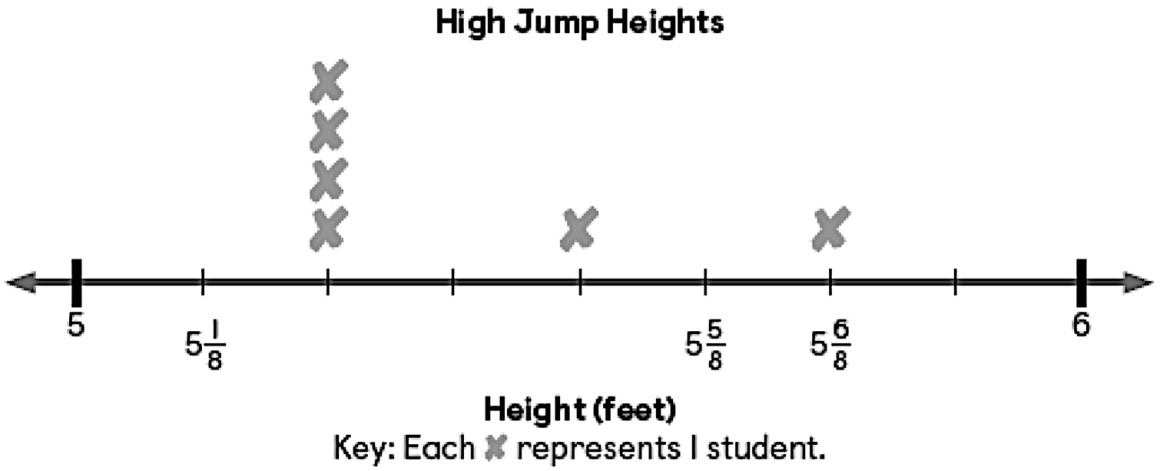
25. The line plot below shows the results of a high jump competition.
The winner is the student who jumped the highest.
Use the data in the line plot to answer the question. [2]



How many feet higher did the winner jump than the student in second place? Express your answer in simplest form.

26. Complete the patterns. Write the rules. [6]

(a) 40, 35, 30, 25, 20, 15, _____, _____

Rule: _____.

(b) 6, 12, 18, 24, 30, 36, _____, _____

Rule: _____.

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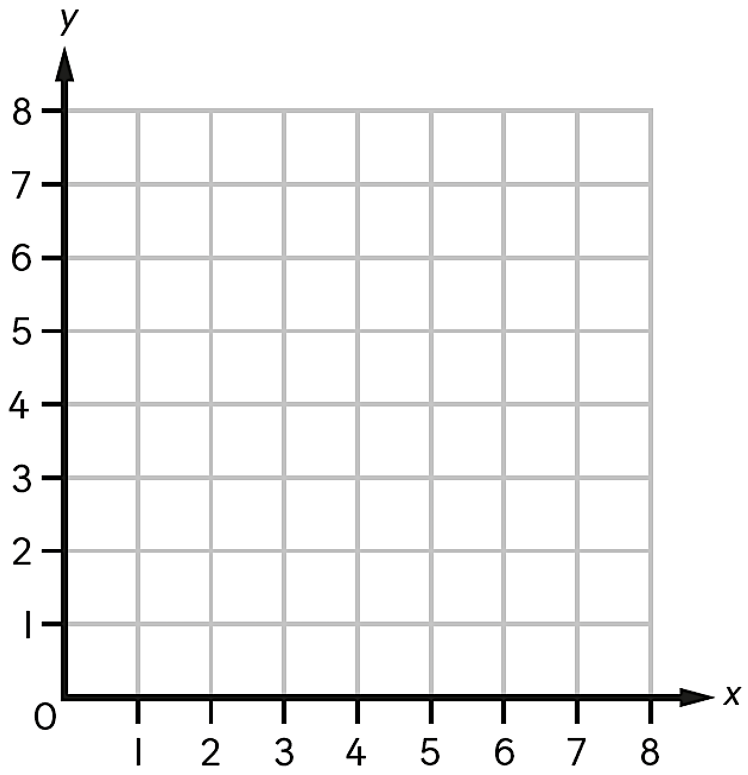
27. Plot each of the following points on the coordinate plane. [4]

(a) Point A (2, 4)

(b) Point B (5, 2)

(c) Point C (0, 3)

(d) Point D (6, 7)



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Answer Key

1. B

2. (a) 0.5 (b) 4.25
   (c) 15.6 (d) 6.875

3. (a) $\frac{4}{5}$ (b) $3\frac{1}{2}$
   (c) $45\frac{3}{4}$ (d) $1\frac{1}{8}$

4. (a) 10 (b) 40 (c) 80

5. B

6. A

7. (a) 530.4

$$\begin{array}{r} 13.26 \\ \times \quad 40 \\ \hline 530.40 \end{array}$$

   (b) 0.12

$$\begin{array}{r} 0.12 \\ 5\overline{)0.60} \\ \underline{5} \\ 10 \\ \underline{10} \\ 0 \end{array}$$

   (c) 22.47

$$\begin{array}{r} 535 \\ \times \quad 42 \\ \hline 1070 \\ 21400 \\ \hline 22470 \end{array}$$

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(d) 9.55

$$
\begin{array}{r}
9.55 \\
4\overline{)38.20} \\
36 \\
\hline
22 \\
20 \\
\hline
20 \\
20 \\
\hline
0
\end{array}
$$

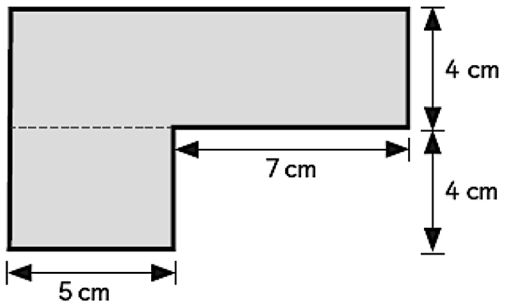
8. (a) 1,500 (b) 3,015 (c) 36

9. B

10. (a) 36 (b) 9

11. (a) 6 (b) 4

12.



Area of figure

$= (5 + 7) \times 4 + 5 \times 4$

$= 12 \times 4 + 20$

$= 48 + 20$

$= 68 \text{ cm}^2$

13. (a) 10, 10

(b) 10, 10, 10

14. (a) 52

$$
\begin{array}{r}
13 \\
\times \quad 4 \\
\hline
52
\end{array}
$$

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(b) 330

$$\begin{array}{r} 22 \\ \times\ 15 \\ \hline 110 \\ 220 \\ \hline 330 \end{array}$$

(c) 21

$$4\overline{)84}$$
$$\begin{array}{r} 21 \\ 8 \\ \hline 4 \\ 4 \\ \hline 0 \end{array}$$

(d) 45

$$3\overline{)135}$$
$$\begin{array}{r} 45 \\ 12 \\ \hline 15 \\ 15 \\ \hline 0 \end{array}$$

15. Triangles: A, I

Quadrilaterals: B, C, H

16. (a) 53° (b) 112°

acute

17. Right Angles: $\angle GHI$

Acute Angles: $\angle DEF$ and $\angle JKL$

Obtuse Angles: $\angle ABC$

18. (a) acute

(b) right

(c) obtuse

(d) acute

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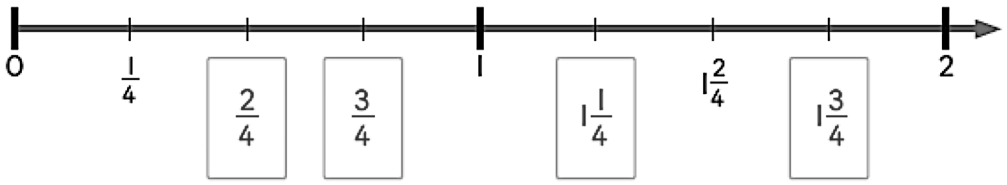
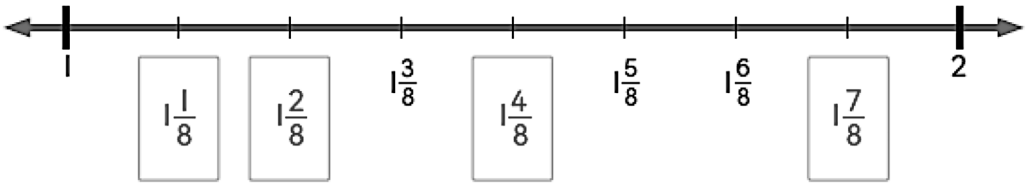
19. B and C

20. D

21. (a)



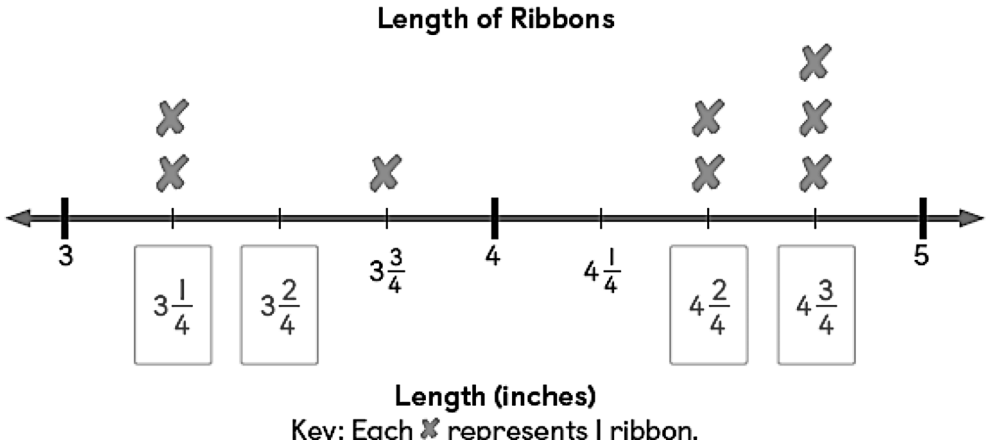
(b)



22. (a) $3\frac{1}{2}$ (b) $16\frac{1}{2}$

23. (a) $\frac{1}{32}$ (b) $\frac{1}{4}$

24. (a)



(b) $3\frac{3}{4}$ (c) $4\frac{3}{4}$

(d) $3\frac{1}{4}$ (e) $3\frac{1}{4}, 4\frac{2}{4}$

(f) 3

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25. $5\frac{6}{8} - 5\frac{4}{8} = \frac{2}{8}$

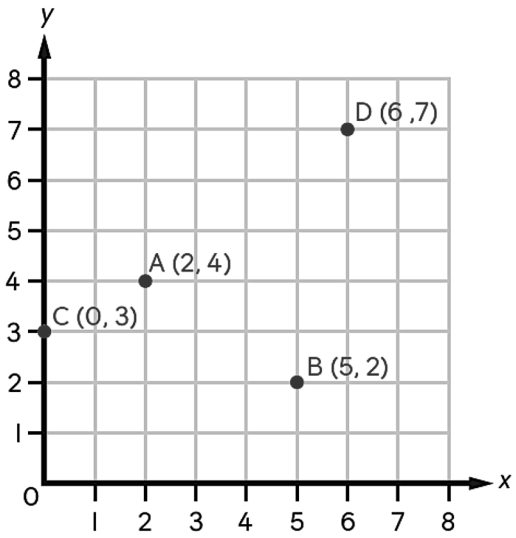
$= \frac{1}{4}$

The winner jumped $\frac{1}{4}$ foot higher than the student in second place.

26. (a) 10, 5, Start at 40 and subtract 5

(b) 42, 48, Start at 6 and add 6

27.



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