

Fourth Grade
Answer Key
Unit 9: Spiral Review

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Problem of the Day

Lesson 1

Greg wrote the number below on his paper. Write the number in standard form.

seven billion, two hundred fifty million, three thousand, ten and five hundredths

Answer: 7,250,003,010.05

Lesson 2

Mary wrote the number below on her paper. Write the number in expanded notation.

993.12

$9 \times 100 + 9 \times 10 + 3 \times 1$

$+ 1 \times 0.1 + 2 \times 0.01$

Lesson 3

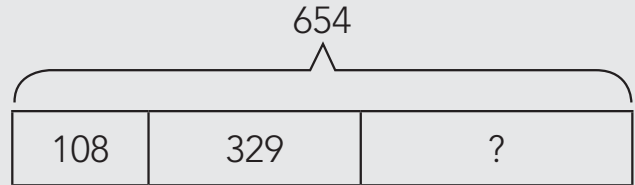
Tina wrote the number below on her paper and underlined a digit. What place value is underlined?

319,390,049

Answer: million

Lesson 4

Solve the strip diagram below.



Answer: 217

Lesson 5

Draw a strip diagram to model the problem below and solve.

$$378 + 721 + 482 = ?$$

1,581

Problem of the Day

Lesson 6

Mira had 945 beads. Bea had 821 beads. What is the estimated difference in the amount of beads that Mira and Bea have?

Answer: 120 beads

Lesson 7

Solve the problem below.

$$87 \times 45 = ?$$

Answer: 3,915

Lesson 8

Solve the problem below.

$$405 \div 3 = ?$$

Answer: 135

Lesson 9

Deanna went shopping with \$500. She purchased a new jacket for \$128 and then three shirts. Each shirt cost \$37. How much money does Deanna have left?

Answer: \$261

Lesson 10

Examine each fraction below. Use multiplication to determine the equivalent numerator.

$$\frac{3}{5} = \frac{?}{20}$$

Answer: 12

Problem of the Day

Lesson 11

Convert the mixed number into an improper fraction and then solve.

$$4\frac{2}{3} - 3\frac{7}{8} =$$

Answer: **$\frac{19}{24}$**

Lesson 12

Compare the fractions below using $<$, $=$, or $>$.

$$\frac{7}{9} \bigcirc \frac{10}{12}$$

Lesson 13

Complete the conversions below.

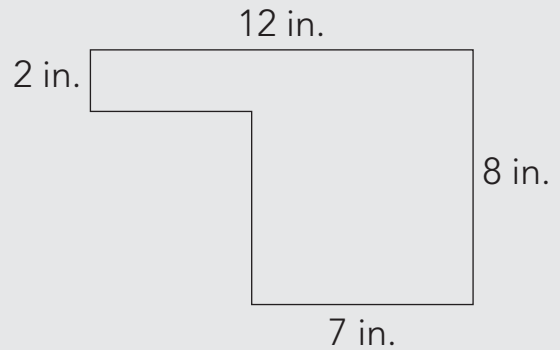
$$8 \text{ lb.} = \underline{\hspace{1cm} \text{128} \hspace{1cm}} \text{ oz.}$$

$$5 \text{ T.} = \underline{\hspace{1cm} \text{10,000} \hspace{1cm}} \text{ lb.}$$

$$48 \text{ oz.} = \underline{\hspace{1cm} \text{3} \hspace{1cm}} \text{ lb.}$$

Lesson 14

Find the area and perimeter of the figure below.



Perimeter: **35 in.**

Area: **66 sq. in.**

Lesson 15

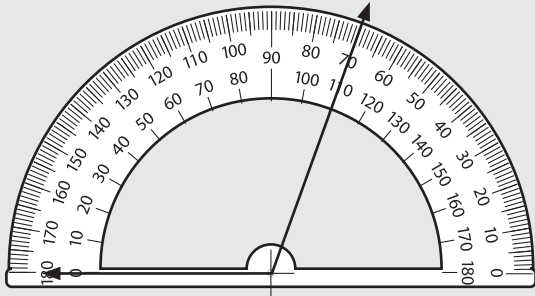
Brandi went shopping at 8:15 a.m. She spent 2 hours and 50 minutes looking for a new pair of shoes. What time did Brandi finish looking for shoes?

Answer: **11:05 a.m.**

Problem of the Day

Lesson 16

Determine the angle measurement.



Degree measurement: 110 degrees

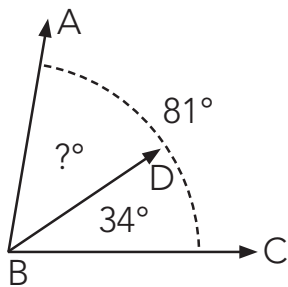
Lesson 19

Caley spent \$54.99 on her first trip to the grocery store, then \$65.75 on her next trip, and \$45.39 on her third trip. How much money did Caley spend on all three grocery store trips?

Answer: \$169.13

Lesson 17

Find the angle measurement below.

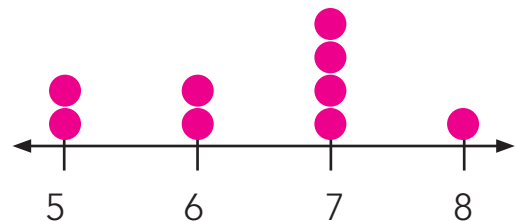


$\angle ABD$ measurement = 47°

Lesson 20

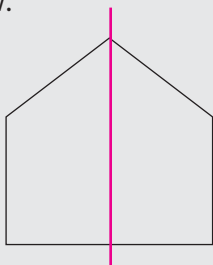
Examine the table below and use the data to create a line plot.

Number of Leaves					
PLANT	NUMBER OF LEAVES	PLANT	NUMBER OF LEAVES	PLANT	NUMBER OF LEAVES
Plant #1	5	Plant #4	8	Plant #7	5
Plant #2	7	Plant #5	6	Plant #8	7
Plant #3	7	Plant #6	6	Plant #9	7



Lesson 18

Draw a line of symmetry on the figure below.




Place Value Quiz

Read the questions below and solve.

- What is 8,068,003,200 in expanded form?
 - $8,000,000,000 + 60,000,000 + 8,000,000 + 30,000 + 2,000$
 - $8,000,000,000 + 6,000,000 + 8,000,000 + 30,000 + 2,000$
 - $8,000,000,000 + 60,000,000 + 8,000,000 + 3,000 + 200$
 - $800,000,000 + 60,000,000 + 8,000,000 + 30,000 + 200$
- Order these numbers from least to greatest.

254,679,022	245,697,202
254,697,022	245,976,020

<u>245,697,202</u>	<u>245,976,020</u>
<u>254,679,022</u>	<u>254,697,022</u>
- Tabby is thinking of a number that has a 6 in both the hundred-millions place and the ten-thousands place. Which could be Tabby's number?
 - 7,647,903,442
 - 5,670,963,442
 - 2,678,907,442
 - 1,647,907,442
- Blake is thinking of a number that rounds to 6,500. Which of the following could not be Blake's number?
 - 6,525
 - 6,465
 - 6,504
 - 6,320
- Compare the numbers below. Write $<$, $=$, or $>$.

20.11  20.2
- View the number below. Write the number in standard form.

$$(9 \times 1,000,000,000) + (5 \times 1,000,000) + (6 \times 100,000) + (4 \times 10,000) + (2 \times 1,000) + (5 \times 100)$$
 - 9,050,642,500
 - 9,005,642,500
 - 9,005,642,050
 - 9,056,042,500

7. In the number below, one digit is underlined and one digit is circled.

79,8⑧1,004

Which statement is true?

- A. The value of the circled digit is 100 times the value of the underlined digit.
- B. The value of the circled digit is 10 times the value of the underlined digit.
- C. The value of the circled digit is one-tenth the value of the underlined digit.
- D. The value of the circled digit is 1 times the value of the underlined digit.

8. In the number below, one digit is underlined and one digit is circled.

90,878,③32

Which statement is true?

- A. The value of the circled digit is 100 times the value of the underlined digit.
- B. The value of the circled digit is 10 times the value of the underlined digit.
- C. The value of the circled digit is one-tenth the value of the underlined digit.
- D. The value of the circled digit is 1 times the value of the underlined digit.

9. Round the number below to the nearest tenth.

8.78

- A. 8.70
- B. 8.80
- C. 8.90
- D. 9.00

10. Round the number below to the nearest ten.

9,003,274,028

- A. 9,003,274,020
- B. 9,003,274,200
- C. 9,003,274,030
- D. 9,003,274,300

Addition and Subtraction Quiz

Read the questions below and solve.

- Meredith found 75 starfish on the beach and Shannon found 109 starfish. Estimate the difference between the numbers of starfish.
 A. 10 starfish
 B. 20 starfish
 C. 40 starfish
D. 30 starfish
- Victor collected 432 rocks and Kayden collected 299 rocks. About how many rocks did the boys collect altogether?
 A. 710 rocks
 B. 720 rocks
C. 730 rocks
 D. 740 rocks
- The Mountain Peak Middle School needs to raise \$12,000. They held a silent auction and raised \$6,795. Their car wash fundraiser raised \$2,094. How much money does the school have left to raise?
 A. \$5,205
 B. \$9,906
C. \$3,111
 D. \$2,798
- Mike earned \$425 mowing lawns for his neighbors. Stewart earned \$186 more than Mike. How much money did the boys earn together?
 A. \$601
 B. \$611
C. \$1,036
 D. \$1,136
- Brooke's farm has 266 chickens. Kara's farm has 48 more chickens than Brooke's farm. How many chickens do the farms have in all?
 A. 508 chickens
B. 580 chickens
 C. 324 chickens
 D. 314 chickens
- View the Input/Output table below. Find the rule and complete the table.

INPUT	OUTPUT
50	74
84	108
128	152
162	186
212	236

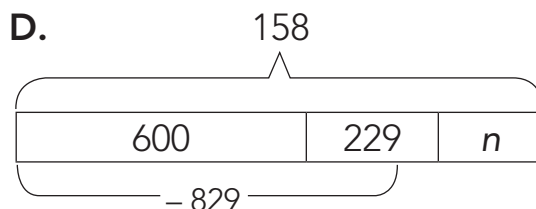
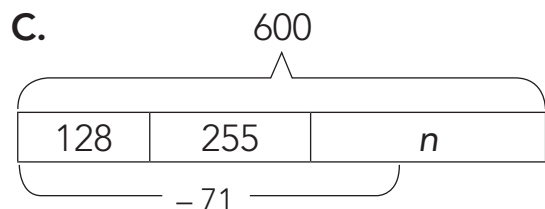
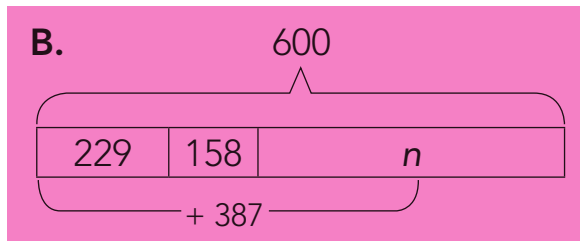
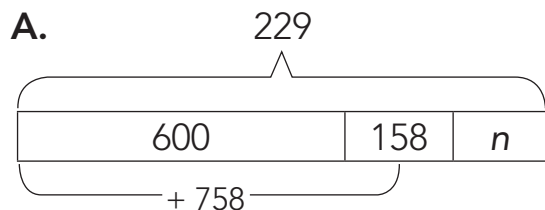
Rule: **Input + 24 = Output**

7. View the Input/Output table below.
Find the rule and complete the table.

INPUT	OUTPUT
400	384
350	334
<u>284</u>	300
287	<u>273</u>
<u>270</u>	256

Rule: Input - 24 = Output

8. Cassie had a shopping budget of \$600. She spent \$229 at one store and \$158 at another store. Which diagram shows the way to solve for the money Cassie has left in her budget, n ?



Solve the problems below.

9.

$$\begin{array}{r} 78,593 \\ - 25,045 \\ \hline 53,548 \end{array}$$

10.

$$\begin{array}{r} 23,848 \\ + 20,773 \\ \hline 44,621 \end{array}$$

11.

$$\begin{array}{r} 4.50 \\ - 2.77 \\ \hline 1.73 \end{array}$$

Multiplication and Division Quiz

Read the questions below and solve.

1. Tiffany purchased 350 charms to make bracelets. If she needs 9 charms to make a bracelet, how many bracelets can Tiffany make?
A. 37 bracelets
B. 38 bracelets
C. 39 bracelets
D. 40 bracelets
2. Madi baked 30 dozen cookies for a bake sale. If she sold 254 cookies, how many cookies are left?
A. 76 cookies
B. 106 cookies
C. 178 cookies
D. 195 cookies
3. Mark went shopping with \$300. He spent \$75 on a pair of shoes and two shirts that cost \$21 each. How much money does Mark have left?
A. \$204
B. \$117
C. \$96
D. \$183
4. Dean had 8 rows in his garden. If he has 42 dozen seeds to plant, how many seeds should he put in each row?
A. 504 seeds
B. 63 seeds
C. 6 seeds
D. 336 seeds
5. Darla earned \$350 babysitting. If she spent all her money on 7 identical workout outfits, how much did each outfit cost?
A. \$40
B. \$45
C. \$50
D. \$55
6. Donna has 236 bows. Amy has three times as many bows as Donna. How many bows do the girls have altogether?
A. 708 bows
B. 944 bows
C. 1,416 bows
D. 472 bows

7. Robbie works at crayon factory, where each box made contains 8 crayons. Which table shows the number of crayons in 2, 4, 7, and 12 boxes?

A.

Number of Boxes	Number of Crayons
2	8
4	16
7	56
12	96

B.

Number of Boxes	Number of Crayons
2	4
4	8
7	56
12	108

C.

Number of Boxes	Number of Crayons
2	16
4	32
7	48
12	96

D.

Number of Boxes	Number of Crayons
2	16
4	32
7	56
12	96

8. Cameron went to the candy shop. Which answer below shows the cost per pound of the candy purchased?

Number of Pounds	Cost
3	\$18
5	\$30
9	\$54
12	\$72

A. Number of pounds \times 6 = Cost

B. Number of pounds \div 6 = Cost

C. Number of pounds \times 7 = Cost

D. Number of pounds \div 7 = Cost

9. Mrs. Jan has 450 eggs. She can sort the eggs into cartons of 8. How many cartons will Mrs. Jan need to sort all her eggs?

Meaning of the remainder:

A. 50

B. 56

C. 57

D. 3,600

10. Hamilton High School has 864 ninth graders attending a field trip. The students need to be split into groups of 7. How many groups will the ninth graders be split into?

A. 122 groups

B. 123 groups

C. 124 groups

D. 125 groups

Fraction Quiz

Read the questions below and solve.

1. What is the simplest form of the fraction below?

$$\frac{9}{12}$$

A. $\frac{1}{3}$

B. $\frac{3}{6}$

C. $\frac{3}{4}$

D. $\frac{4}{10}$

2. Determine which fraction is equivalent to the one below.

$$\frac{3}{8}$$

A. $\frac{12}{40}$

B. $\frac{9}{24}$

C. $\frac{20}{40}$

D. $\frac{18}{24}$

3. Compare the fractions below.

$$\frac{4}{6} \bigcirc \frac{3}{9}$$

A. $\frac{4}{6} > \frac{3}{9}$

B. $\frac{4}{6} < \frac{3}{9}$

C. $\frac{4}{6} = \frac{3}{9}$

4. What is the fraction equation for the figure below?



A. $1 + 1 + \frac{11}{4}$

B. $1 + \frac{3}{4}$

C. $1 + 1 + \frac{3}{4}$

D. $1 + \frac{11}{4}$

5. Examine the number line below and determine the plotted point.



A. $1\frac{2}{5}$

B. $1\frac{4}{5}$

C. $1\frac{3}{5}$

D. $1\frac{1}{5}$

6. Convert each mixed number below to an improper fraction. Then subtract.

$$3\frac{4}{7} - 2\frac{1}{7} =$$

A. $\frac{12}{7}$

B. $\frac{10}{7}$

C. $\frac{11}{7}$

D. $\frac{9}{7}$

7. Hunter ran $2\frac{1}{3}$ miles. Jared ran $3\frac{2}{3}$ miles. How many total miles did the boys run?
- A. 5 miles B. $5\frac{2}{3}$ miles
- C. 6 miles D. $6\frac{1}{3}$ miles
8. Jake ate $2\frac{4}{6}$ donuts. Penny ate $3\frac{2}{6}$ donuts. How many more donuts did Penny eat than Jake?
- A. $\frac{4}{6}$ donut B. $\frac{3}{6}$ donut
- C. $\frac{2}{6}$ donut D. $\frac{5}{6}$ donut
9. Harriet painted $\frac{2}{8}$ of a wall. Martin painted $\frac{7}{8}$ of a same-sized wall. How much more of a wall did Martin paint than Harriet?
- A. $\frac{3}{8}$ wall B. $\frac{5}{8}$ wall
- C. $\frac{1}{8}$ wall D. $\frac{12}{8}$ wall
10. Winston bought $3\frac{1}{4}$ gallons of milk and Kaitlyn bought $1\frac{2}{4}$ gallons of milk. How many gallons of milk did they buy altogether?
- A. $5\frac{3}{4}$ B. $5\frac{2}{4}$
- C. $4\frac{1}{4}$ D. $4\frac{3}{4}$

Measurement and Geometry Quiz

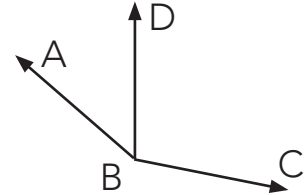
Read the questions below and solve.

1. Lauren drew a quadrilateral on her paper. The figure had four sides of equal length and two sets of parallel lines, but no right angles. What shape did Lauren draw?

A. rectangle
B. square
C. parallelogram
D. rhombus

2. $\angle ABC$ has a measurement of 168° . If $\angle ABD$ has a measurement of 49° , what is the measurement of angle $\angle DBC$?

A. 111°
B. 116°
C. 119°
D. 121°



3. Leo made an apple pie for dessert. He split the pie into 12 equal slices. What is the angle measurement of each slice?

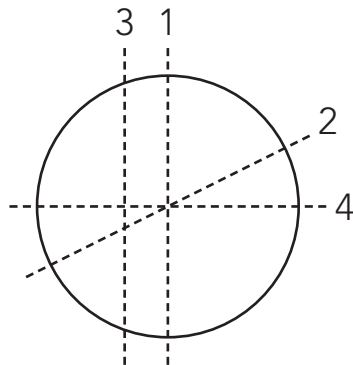
A. 30°
B. 40°
C. 50°
D. 60°

4. Maddie wants to measure how much milk she will need to bake a few dozen cakes. If she has 2 gallons of milk, how many cups of milk can she use?

A. 16 cups
B. 24 cups
C. 32 cups
D. 36 cups

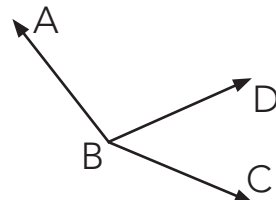
5. Examine the image below. Determine which line is not a line of symmetry.

A. Line 1
B. Line 2
C. Line 3
D. Line 4



6. Jenny drew an obtuse angle, $\angle ABD$ that measured 114° . The angle $\angle DBC$ is 38° , so what is the measurement of $\angle ABC$?

A. 148°
B. 152°
C. 156°
D. 158°



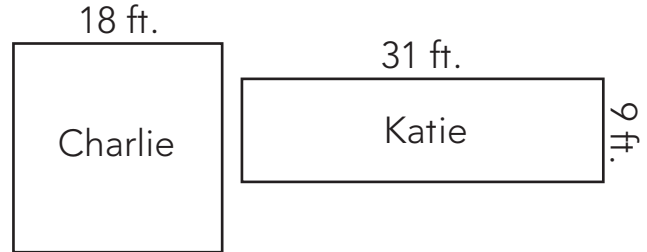
7. Matt draws a square whose sides measure 25 inches. Gregory draws a rectangle whose sides measure 20 inches by 14 inches. Whose figure has a smaller perimeter? How much smaller is the perimeter? (Hint: Draw a model to solve).

A. Matt; 32 inches
B. Gregory; 32 inches
C. Matt; 128 inches
D. Gregory; 128 inches

9. Adam wants to measure the height of a tree in his backyard. Which unit of measurement would be the most appropriate?

A. meters
B. millimeters
C. kilometers
D. centimeters

8. Charlie and Katie compared their garden sizes. Which of their gardens has a larger area? How much larger is the area?



A. Katie; 603 ft^2
B. Charlie; 603 ft^2
C. Katie; 45 ft^2
D. Charlie; 45 ft^2

10. Liz worked on her science project for 2 hours and 45 minutes. If she started working on her project at 3:25 p.m., what time did she finish working on her project?

A. 5:55 p.m.
B. 6:00 p.m.
C. 6:05 p.m.
D. 6:10 p.m.

Personal Finance and Data Quiz

Read the questions below and solve.

1. Rebecca had to pay \$780 for rent, \$150 for her car payment, and \$250 for insurance. She then spent \$315 on groceries and \$89.99 on a new pair of pants. How much more money did Rebecca spend on fixed expenses than variable expenses?
A. \$1,245.00
B. \$1090.11
C. \$865.00
D. \$775.01
2. Mike earned \$400 trimming his neighbor's bushes. He wants to put half of his money in his college savings account. He must also pay his brother \$125. How much money will Mike have left over?
A. \$75.00
B. \$125.00
C. \$175.00
D. \$225.00
3. Tim worked at the local mechanic shop and earned \$500 in his first month. He had to pay the shop \$45.45 for his uniform. How much did Tim earn after buying his uniform?
A. \$445.55
B. \$454.00
C. \$454.55
D. \$455.00
4. Sloane purchased 3 new shirts for \$15.00 each. She then bought new sunglasses for \$45.65 and a new suitcase for \$98.75. How much money did Sloane spend?
A. \$159.40
B. \$174.43
C. \$189.40
D. \$204.40
5. Sally had \$4,890.33 in her savings account. She decided to withdraw \$2,790.95 to pay toward her new car. How much money will Sally have left in her savings account after her withdrawal?
A. \$7,681.28
B. \$2,099.38
C. \$7,691.38
D. \$2,089.48
6. Mark had \$435.67 in his bank account. He withdrew \$190.89 and then later that week deposited \$89.21. How much money did Mark have in his account at the end of the week?
A. \$333.99
B. \$244.78
C. \$346.46
D. \$626.56

For numbers 7–10, use the line plot below.



7. Complete the frequency table using the line plot above.

Favorite Color		
Color	Tally	Frequency
Blue		10
Red		9
Green		7
Yellow		1

8. How many people chose blue and green over red?

A. 7 people
B. 8 people
 C. 9 people
 D. 10 people

9. How many more people chose red over green and yellow?

A. 0
B. 1
 C. 2
 D. 3

10. How many people voted for their favorite color?

A. 25 people
 B. 26 people
C. 27 people
 D. 28 people

Assessment

Read the questions below and solve.

1. Vicky collected 221 shells and Casey collected 143 shells. About how many shells did they find altogether?
A. 350 shells
B. 360 shells
C. 366 shells
D. 375 shells
2. Solve the problem below.
 $720 \div 4 = \underline{\hspace{2cm}}$
A. 178
B. 179
C. 180
D. 181
3. Ryan earned \$95.50 working in the backyard. His dad paid him \$45.75 to rake all the leaves. If the remaining amount was what he earned for mowing, how much money did he earn from mowing?
A. \$46.75
B. \$47.50
C. \$49.75
D. \$50.50
4. Nathan wants to measure the capacity of his swimming pool. Which unit of measure would be the most appropriate?
A. pints
B. cups
C. gallons
D. quarts

5. Sarah's school collected 400 cans each week for 6 weeks. Jordan's school collected 275 cans a week for 4 weeks.

Which equation can be used to find g , the total number of cans collected by both schools?

- A. $(400 \times 6) + 275 = g$
B. $(275 \times 4) + (400 \times 6) = g$
C. $(400 \times 6) - (275 \times 4) = g$
D. $400 - 275 = g$
7. Michelle completed $\frac{3}{6}$ of her homework. Christie had the same homework and completed $\frac{5}{9}$. Which is the correct comparison of the amount of homework completed?

- A. $\frac{5}{9} < \frac{3}{6}$
B. $\frac{3}{6} = \frac{5}{9}$
C. $\frac{3}{6} < \frac{5}{9}$
D. $\frac{3}{6} > \frac{5}{9}$

6. In the number below, one digit is underlined and one digit is circled.

93,022,556

Which statement is true?

- A. The value of the circled digit is 100 times the value of the underlined digit.
B. The value of the circled digit is 10 times the value of the underlined digit.
C. The value of the circled digit is one-tenth the value of the underlined digit.
D. The value of the circled digit is 1 times the the underlined digit.

8. Jared earned 315 tickets at the local arcade. Randi earned 268 tickets. If they put their tickets together and bought a prize for 539 tickets, how many tickets do they have left to spend?

- A. 583 tickets
B. 44 tickets
C. 573 tickets
D. 34 tickets

9. Kendall got to her appointment at 2:30 p.m. She left her house at 1:55 p.m. How long did Kendall's drive take?

A. 30 minutes
B. 35 minutes
C. 40 minutes
D. 45 minutes

10. Jacob ran a lap in 48.76 seconds. Trey ran a lap in 51.90 seconds. How many more seconds did it take Trey to run the lap than Jacob?

A. 2.14 seconds
B. 2.54 seconds
C. 3.14 seconds
D. 3.54 seconds

11. Rachel earned \$400 after a month of working at a restaurant. She purchased some new clothes for \$198.39. How much money does Rachel have left to spend? Fill in your answer using the griddable below.

\$201.61

12. Carla purchased 400 beads to make bracelets. If each bracelet has 5 beads, how many bracelets will Carla be able to make? Fill in your answer using the griddable below.

80 bracelets

13. Ryland High collected cans for 24 days. Below is how many cans were collected each day.

30	33	20	29	28	37
26	11	3	25	29	29
30	35	32	38	30	30
25	1	20	28	11	33

Which stem and leaf plot represents the data?

A.

Number of Cans	
Stem	Leaf
0	1, 1, 3,
1	1
2	0, 0, 2, 5, 5, 6, 8, 8
3	0, 0, 0, 0, 3, 3, 5, 7, 8, 9, 9, 9
KEY: 3 0 = 30	

B.

Number of Cans	
Stem	Leaf
0	1, 3,
1	1, 1
2	0, 0, 5, 5, 6, 8, 8, 9, 9, 9
3	0, 0, 0, 0, 2, 3, 3, 5, 7, 8
KEY: 3 0 = 30	

C.

Number of Cans	
Stem	Leaf
0	1, 3
1	1, 1
2	0, 0, 8, 8, 9, 9, 9
3	0, 0, 0, 0, 3, 3, 5, 5, 5, 6, 7, 8
KEY: 3 0 = 30	

D.

Number of Cans	
Stem	Leaf
0	1, 3,
1	0, 0, 1, 1
2	0, 0, 2, 5, 5, 6, 8, 8, 9, 9, 9
3	0, 0, 3, 3, 5, 7, 8
KEY: 3 0 = 30	

14. The input/output table below relates values. Which rule describes the relationship?

INPUT	OUTPUT
84	12
56	8
49	7
55	5

- A. $\text{Input} \div 6 = \text{Output}$
B. $\text{Input} \times 7 = \text{Output}$
C. $\text{Input} \times 6 = \text{Output}$
D. $\text{Input} \div 7 = \text{Output}$
16. Erin's school has a total of 1,400 students. If 789 tickets were sold to the school dance, how many students did not buy a ticket to the dance?
A. 652 students
B. 631 students
C. 611 students
D. 602 students
18. Josiah ran $5\frac{1}{4}$ miles. Nick ran $4\frac{3}{4}$ miles. How many miles did the boys run in all?
A. 9 miles
B. $9\frac{3}{4}$ miles
C. 10 miles
D. $10\frac{1}{4}$ miles

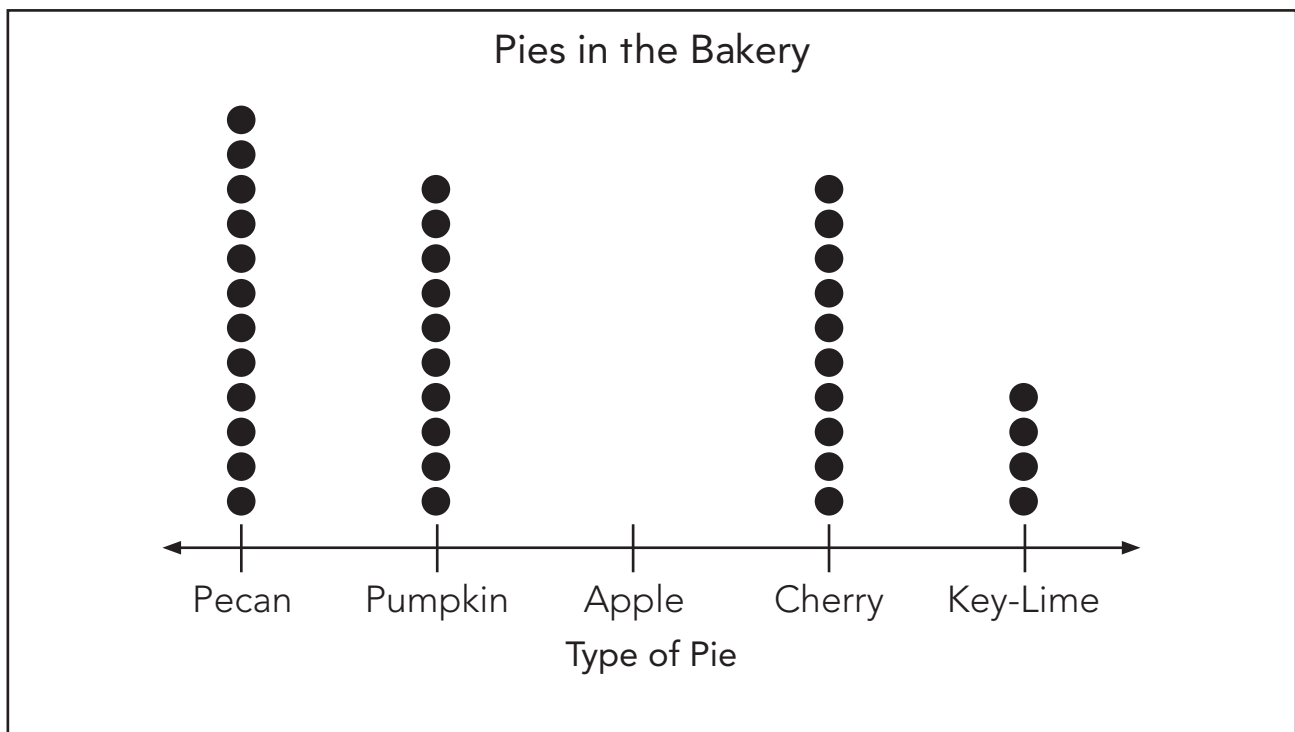
15. Leah made a square whose sides measured 21 inches. Drew made a rectangle whose sides measured 12 inches by 17 inches. Whose figure had a smaller area? What is the total area of both figures? (Hint: Draw a model to solve.)

- A. Leah; 237 square inches
B. Drew; 237 square inches
C. Leah; 645 square inches
D. Drew; 645 square inches

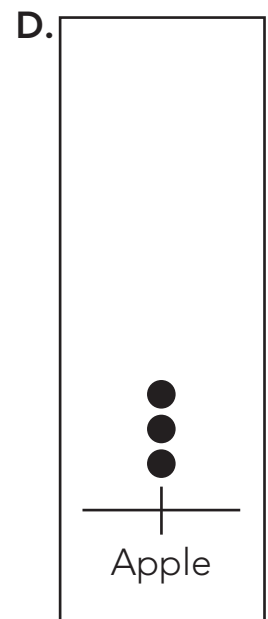
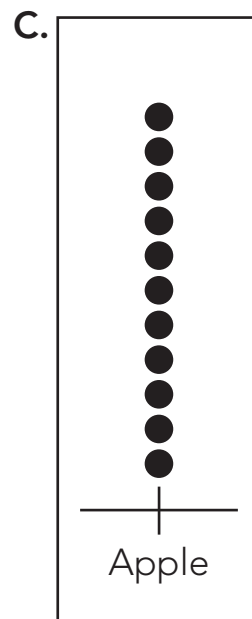
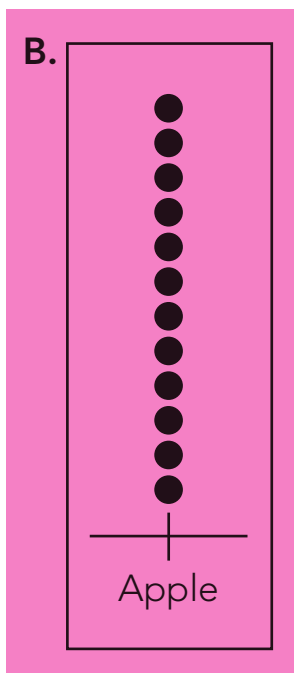
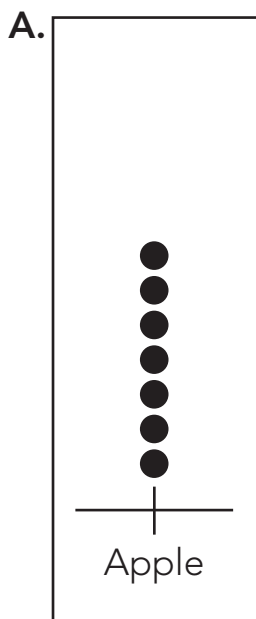
17. Renee went to the sports store and purchased two new pairs of workout pants for \$49 each. She then purchased a pair of running shoes for \$56.99 and a watch for \$35.85. How much money did Renee spend at the store?
A. \$92.84
B. \$105.99
C. \$133.85
D. \$190.84

19. Hannah baked 40 dozen cupcakes for a bake sale. If she sold 197 cupcakes, how many cupcakes does she have left?
A. 480 cupcakes
B. 346 cupcakes
C. 283 cupcakes
D. 213 cupcakes

20. Peter's Pie Place has a total of 48 pies on the shelves. The line plot below shows the number of pecan, pumpkin, cherry, and key-lime pies in the bakery.



Which of the following shows the number of apple pies in Peter's Pie Place?



Write the number below in expanded notation:

Eight billion, seven hundred sixty million, ninety-four thousand, twenty-seven

$$8 \times 1,000,000,000 + 7 \times 100,000,000 + 6 \times 10,000,000 + 9 \times 10,000 + 4 \times 1,000 + 2 \times 10 + 7$$

Complete the comparison below using $<$, $=$, or $>$.

$$87,940,003 \bigcirc 87,904,003$$

Write this number in expanded form:

225.08

$$200 + 25 + 0.08$$

Round the number below.

23,459,081

Nearest thousand: 23,460,000

Nearest hundred: 23,459,100

Nearest ten: 23,459,080

Write the numbers in order from least to greatest.

8,909,433,771

8,990,433,771

8,909,343,177

8,099,433,717

8,099,433,717

8,909,343,177

8,909,433,771

8,990,433,771

Round the number below.

87,903,224

Nearest thousand: 87,903,000

Nearest hundred: 87,903,200

Nearest ten: 87,903,220

Write this number in standard form:

$$\begin{aligned} &(4 \times 10,000,000) + (2 \times 100,000) \\ &+ (8 \times 10,000) + (5 \times 100) + (3 \times 1) \\ &\quad + (4 \times 0.1) + (6 \times 0.01) \end{aligned}$$

40,280,503.46

Is the circled value ten times
or one-tenth the value of the
underlined digit?

89(9),041

one-tenth

Write this number in word form:

$$4,000,000,000 + 50,000,000 \\ + 600,000 + 4,000 + 600 + 8$$

**four billion, fifty million, six hundred
four thousand, six hundred eight**

Is the circled value ten times
or one-tenth the value of the
underlined digit?

75(5),329

one-tenth

Write the numbers in order from greatest to least.

2.74

2.7

2.08

2.79

2.08, 2.7, 2.74, 2.79

In the number below, one digit is underlined and one digit is circled.

430,094,471

Which statement is true?

- A. The value of the circled digit is 100 times the underlined digit.
- B. The value of the circled digit is 10 times the underlined digit.
- C. The value of the circled digit is one-tenth the underlined digit.
- D. The value of the circled digit is 1 times the underlined digit.

James has 268 seashells. If Henry has 329 more seashells than James, how many seashells do the boys have altogether?

597 seashells

Draw a strip diagram to model and solve the problem below.

$$1,590 - 1,095 = ?$$

495

Examine the Input/Output table.
Determine the rule, then write the rule and copy the table, filling in the missing numbers.

Input	Output
40	63
49	72
<u>65</u>	87
96	<u>119</u>
<u>129</u>	152

Solve the problem below.

$$\begin{array}{r} 70.00 \\ - 57.84 \\ \hline \end{array}$$

12.16

Draw a strip diagram to model and solve the problem below.

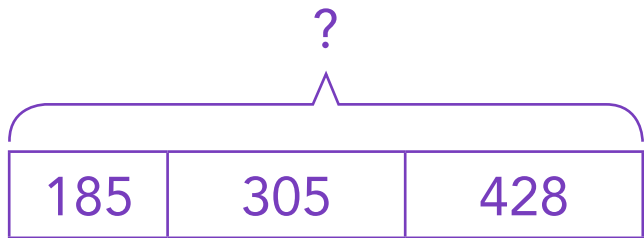
$$986 - 426 = ?$$

560

Andrew has 1,245 stamps.
Beverly has 723 stamps. What is
the estimated difference in the
amount of stamps that Andrew
and Beverly have?

522 stamps

Solve the strip diagram below.



918

Examine the Input/Output table.
Determine the rule, then write the rule and copy the table, filling in the missing numbers.

Input	Output
544	517
503	476
375	<u>348</u>
<u>334</u>	307
299	<u>272</u>

$$\text{Input} - 27 = \text{Output}$$

John needed to chop 294 pieces of firewood. He chopped 87 pieces on Friday and then another 109 pieces on Saturday. How many pieces of firewood does John still need to chop? Draw a strip diagram to model and solve.

98 pieces of firewood

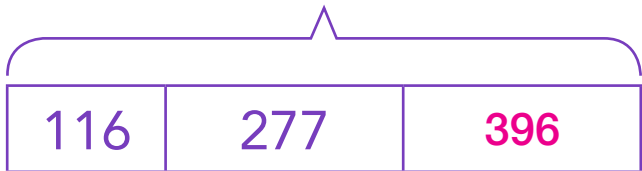
Solve the problem below.

$$\begin{array}{r} 67.59 \\ + 40.78 \\ \hline \end{array}$$

108.37

Solve the strip diagram below.

789



Draw a strip diagram to model and solve the problem below.

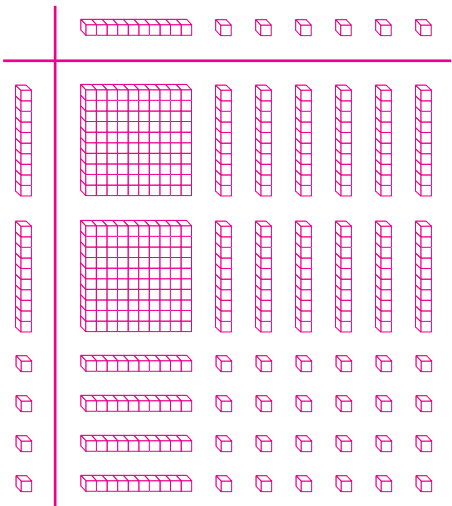
$$590 + 324 = 914$$

$23 \times 19 = \underline{437}$	$83 \times 39 = \underline{3,471}$	$555 \div 3 = \underline{185}$
$678 \div 4 = \underline{169 \text{ r}5}$	$678 \div 4 = \underline{169.5}$	$540 \div 2 = \underline{270}$
$75 \times 35 = \underline{2,625}$	$678 \div 9 = \underline{75 \text{ r}3}$	$45 \times 32 = \underline{1,440}$
$458 \div 8 = \underline{57.25}$	$34 \times 12 = \underline{408}$	$80 \times 55 = \underline{4,400}$
$357 \div 7 = \underline{51}$	$96 \times 16 = \underline{1,536}$	$6,822 \div 6 = \underline{1,137}$
$678 \div 6 = \underline{113}$	$50 \times 48 = \underline{2,400}$	$909 \div 9 = \underline{101}$
$6,398 \div 7 = \underline{914}$	$66 \times 38 = \underline{2,508}$	$1,425 \div 3 = \underline{475}$
$701 \div 5 = \underline{140 \text{ r}2}$	$30 \times 25 = \underline{750}$	$678 \div 2 = \underline{339}$

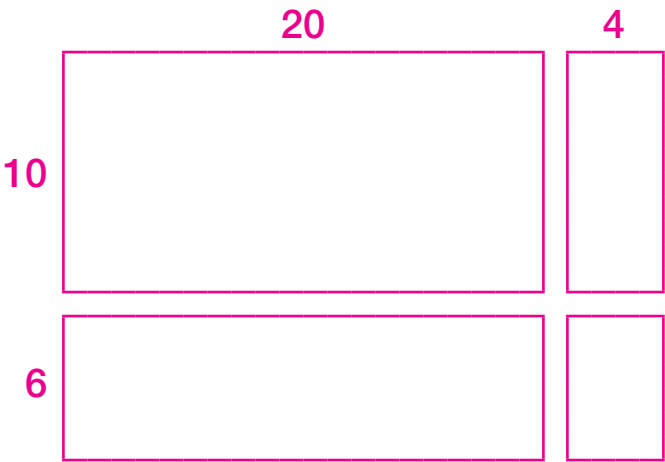
Represent the multiplication problem using Base Ten Blocks, an area model, the box method, and the standard algorithm. Make sure to fill in the product for the equation.

$24 \times 16 = \underline{\hspace{2cm}}$

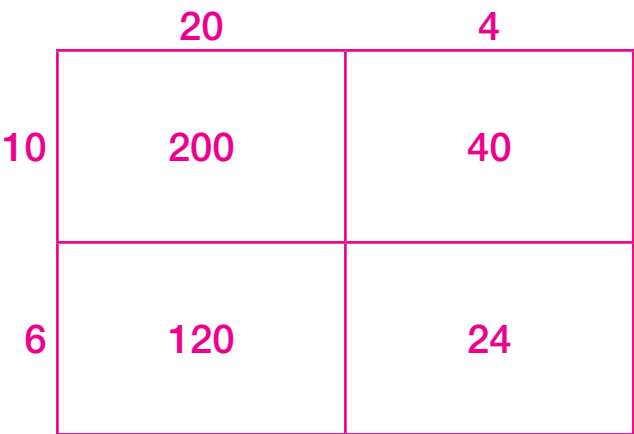
Base Ten Blocks



Area Model



Box Method



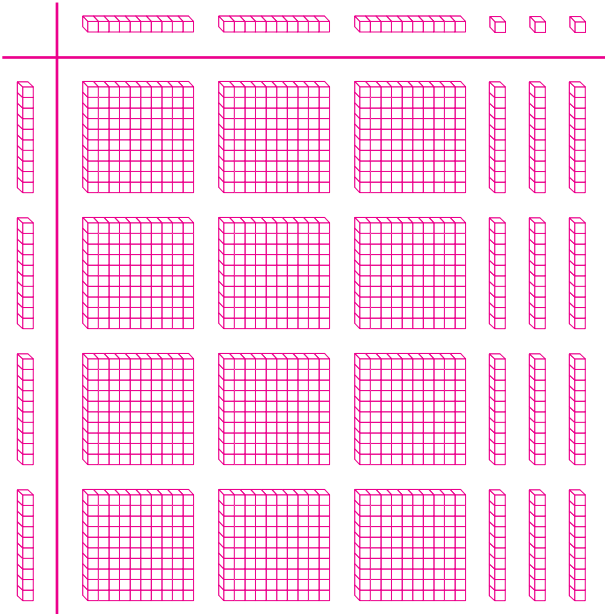
Standard Algorithm

$24 \times 16 = 384$

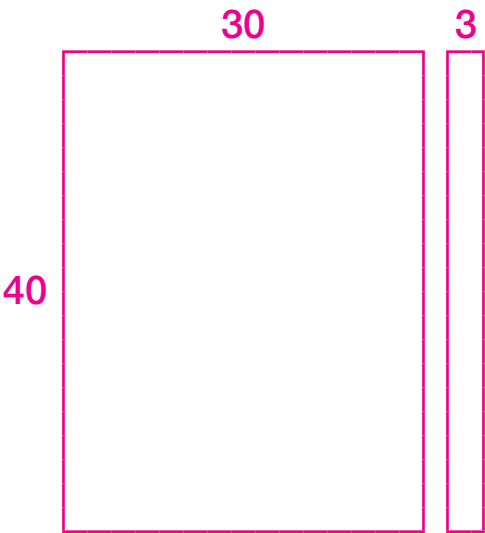
Represent the multiplication problem using Base Ten Blocks, an area model, the box method, and the standard algorithm. Make sure to fill in the product for the equation.

$40 \times 33 = \underline{\hspace{2cm}}$

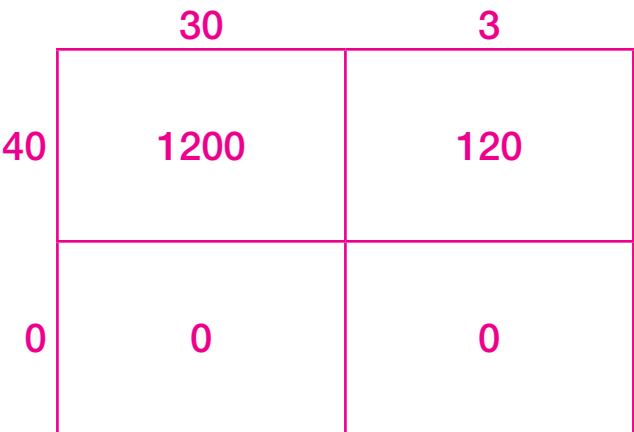
Base Ten Blocks



Area Model



Box Method



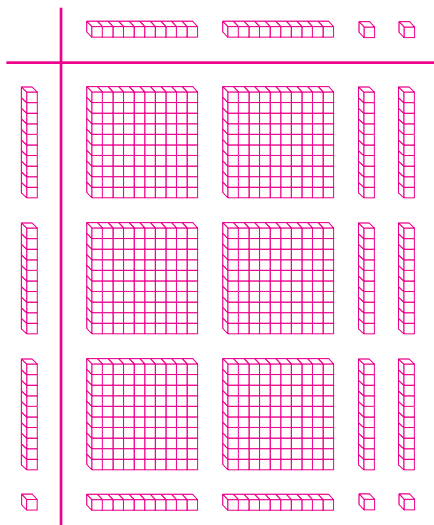
Standard Algorithm

$40 \times 33 = 1,320$

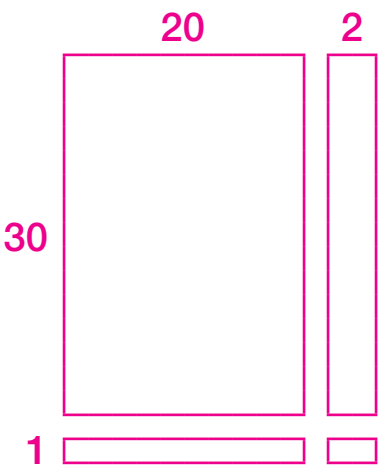
Represent the multiplication problem using Base Ten Blocks, an area model, the box method, and the standard algorithm. Make sure to fill in the product for the equation.

$31 \times 22 = \underline{\hspace{2cm}} 682$

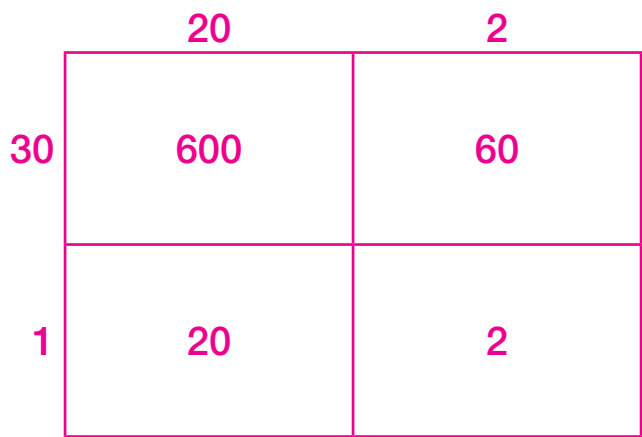
Base Ten Blocks



Area Model



Box Method



Standard Algorithm

$31 \times 22 = 682$

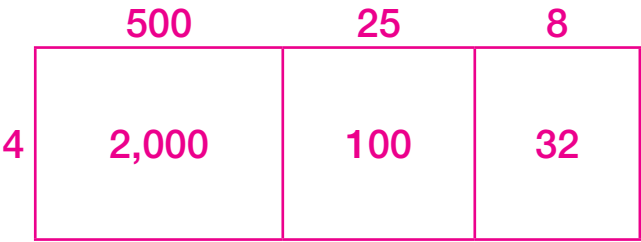
Represent the division problem using partial quotients, an area model, and the standard algorithm. Make sure to fill in the quotient for the equation.

$2,132 \div 4 = \underline{\hspace{2cm}533\hspace{2cm}}$

Partial Quotient

533

Area Model



Standard Algorithm

$2,132 \div 4 = 533$

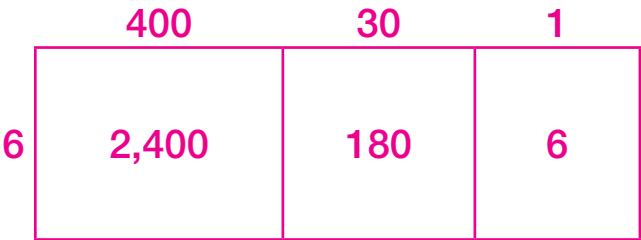
Represent the division problem using partial quotients, an area model, and the standard algorithm. Make sure to fill in the quotient for the equation.

$2,586 \div 6 = \underline{\hspace{2cm}}$

Partial Quotient

431

Area Model



Standard Algorithm

$2,586 \div 6 = 431$

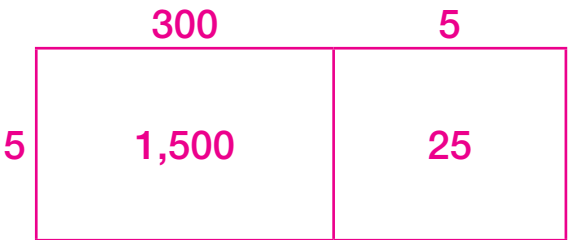
Represent the division problem using partial quotients, an area model, and the standard algorithm. Make sure to fill in the quotient for the equation.

$1,525 \div 5 = \underline{\hspace{2cm}}$ **305**

Partial Quotient

305

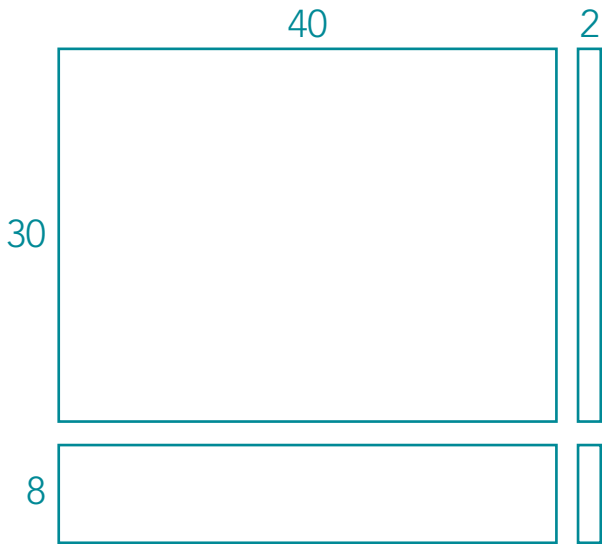
Area Model



Standard Algorithm

$1,525 \div 5 = 305$

Examine the model below. Determine the equation it represents and solve.



$$38 \times 42 = 1,596$$

Jessica has a square tile that has a side length of 14 inches. She also has a rectangular tile that has side lengths of 17 inches and 5 inches. Which tile has a greater area? (Hint: Draw a model to solve).

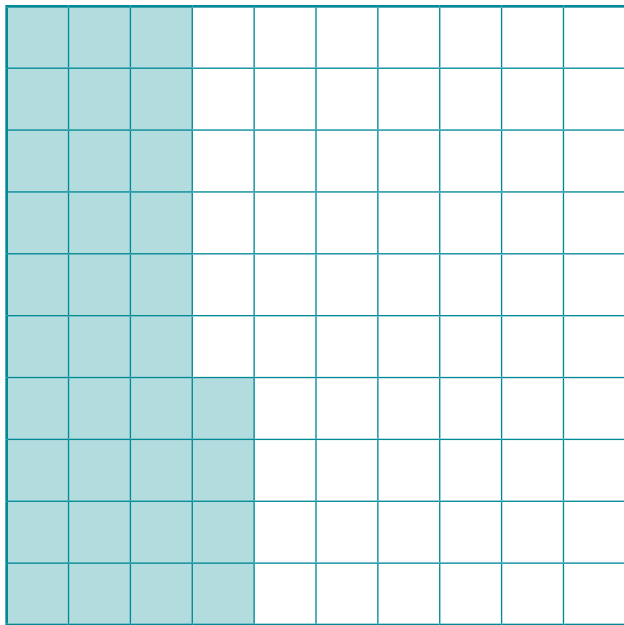
square tile

Write the number below in expanded notation:

six billion, five hundred
forty million, two hundred
eighty-one thousand, twelve

$$6 \times 1,000,000,000 + 5 \times 100,000,000 + \\ 4 \times 10,000,000 + 2 \times 100,000 + \\ 8 \times 10,000 + 1 \times 1,000 + 1 \times 10 + 2$$

Examine the model below and write the decimal that is represented.



0.34

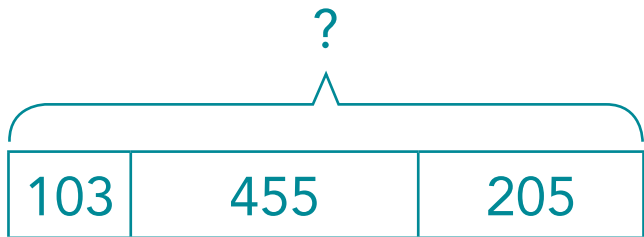
It takes Max 3 hours and 25 minutes to get to his grandfather's house. If he needs to be there by 4:45 p.m., what time does Max need to leave his house?

1:20 p.m.

Deidra purchased a shirt for \$54.66.
Rita purchased a shirt for \$32.99.
How much more money did Deidra
spend on her shirt than Rita?

\$21.67

Solve the strip diagram below.



763

Put the fraction below in its simplest form.

$$\frac{12}{30} = \frac{2}{5}$$

Kristi drew two acute angles that had a total measurement of 81° . If one of the angles measures 39° , what is the measurement of the other angle?

42 degrees

Draw a number line to model the fraction below.

$$\frac{5}{3}$$



Hank's Truck Stop had 50 dozen eggs in stock. They cooked 294 eggs and then received a shipment of 212 eggs. How many eggs does Hank's Truck Stop have in stock now?

518 eggs

Examine the list of expenses below.

- groceries
- shopping
- movie tickets

Are these expenses fixed or variable expenses?

variable expenses