

Fourth Grade
Answer Key
Unit 1: Place Value

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Problem of the Day

Lesson 1

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

six hundred ninety-eight thousand
four hundred twelve

Answer: 698,412

Lesson 2

Raven wrote the number below on her paper. Write the number in expanded form.

780,493

Answer: 700,000 + 80,000 + 400 +
90 + 3

Lesson 3

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

8,903,459,002

Answer: billion

Lesson 4

Write the number below in expanded notation.

3,274,921

3 × 1,000,000 + 2 × 100,000 +
7 × 10,000 + 4 × 1,000 + 9 × 100 +
2 × 10 + 1

Lesson 5

Compare the numbers.
Write <, =, or > in the blank.

7,809,004,321 < 7,809,040,123

Problem of the Day

Lesson 6

Compare. Write the correct symbol.

$$67,984,003 \text{ } > \text{ } 67,948,030$$

Lesson 7

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

$$5,4\underline{8}(\textcircled{8}),993$$

Answer: one-tenth

Lesson 8

Round 5,678 to the nearest 100.

Answer: 5,700

Round 10,073 to the nearest 1,000.

Answer: 10,000

Lesson 9

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

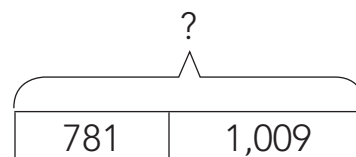
$$54,3\underline{9}(\textcircled{9}),044$$

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.

Lesson 10

Examine the strip diagram below and solve.

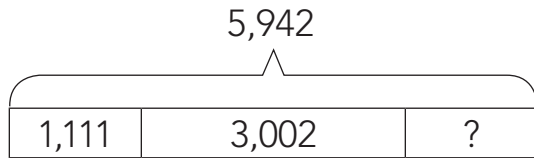


Answer: 1,790

Problem of the Day

Lesson 11

Examine the strip diagram below and solve.



Answer: _____ **1,829**

Lesson 12

Solve the problem below.

$$\begin{array}{r} 4,000 \\ - 2,983 \\ \hline 1,017 \end{array}$$

Lesson 13

Miguel and Chris caught 325 fish. If Chris caught 175 of the fish, how many fish did Miguel catch?

Answer: _____ **150 fish**

Lesson 14

Eva hit 450 tennis balls for practice on Wednesday. On Thursday she hit 378 tennis balls. How many tennis balls did Eva hit altogether?

Add or subtract:

add

How do you know?

Sample answer: The question asks how many altogether.

Answer: _____ **828 tennis balls**

Lesson 15

Maria collected 345 state coins. Adam collected 514 coins. What is the estimated difference in the number of coins that Maria and Adam have?

Answer: _____ **160 coins**

Problem of the Day

Lesson 16

Luke filled 145 water balloons. Dylan filled 115 more water balloons than Luke. What is the total number of water balloons the boys filled?

Answer: 405 water balloons

Lesson 17

Wendy had to deliver 450 flyers. She delivered 125 on Monday and 300 on Tuesday. How many flyers does Wendy have left to deliver? Draw a strip diagram and solve.

Answer: 25 flyers

Lesson 18

Luis picked up 324 aluminum cans. Josh picked up 127 more cans than Tim. How many cans did the boys pick up altogether? Draw a strip diagram and solve.

Answer: \$775

Lesson 19

View the input/output table below. Find the rule and solve for the missing numbers.

| INPUT | OUTPUT |
|-----------|-----------|
| 100 | 84 |
| 86 | 70 |
| <u>70</u> | 54 |
| 48 | <u>32</u> |
| <u>28</u> | 12 |

Rule: The output is always 16 less than the input.

Lesson 20

Solve the problem below using the UPS model.

Marcus earned \$215. David earned \$195 more than David. How much money did the boys earn altogether?

U:

How much money did the boys earn altogether.

P:

add

S:

\$625

Check: **\$215 + \$195 + \$215 = \$625**

Pre-Assessment

Solve each problem below.

$$\begin{array}{r} 1. \quad 4,398 \\ - 2,110 \\ \hline 2,288 \end{array}$$

$$\begin{array}{r} 2. \quad 5,000 \\ - 3,459 \\ \hline 1,541 \end{array}$$

Read each problem below and solve.

3. Jorge is thinking of a number that has a 7 in both the ten-millions place and the thousands place. Which of the following could be Jorge's number?
- A. 7,647,903,442
 - B. 5,678,973,442
 - C. 2,678,907,442**
 - D. 1,647,907,442
4. Tracy is thinking of a number that rounds to 5,000. Which of the following could not be Tracy's number?
- A. 5,007
 - B. 5,110
 - C. 4,005**
 - D. 4,950
5. What is the number below in standard form?
- $$(5 \times 1,000,000,000) + (7 \times 10,000,000) + (9 \times 1,000,000) + (6 \times 10,000) + (5 \times 1,000) + (4 \times 100) + (8 \times 10)$$
- A. 5,790,065,480
 - B. 579,065,480
 - C. 5,079,065,480**
 - D. 5,790,065,480

Read each problem below and solve.

6. What is the estimated sum of the numbers below?

$$568 + 912 = ?$$

A. 1,478

B. 1,480

C. 1,470

D. 1,481

7. Compare the numbers below. Write $<$, $=$, or $>$.

$$1,909,650,439 \underline{<} 1,990,650,493$$

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

67,82,019

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. What is 9,040,592,045 written in expanded form?

A. $9,000,000,000 + 4,000,000 + 50,000 + 9,000 + 200 + 40 + 5$

B. $9,000,000,000 + 40,000,000 + 500,000 + 90,000 + 2,000 + 40 + 5$

C. $9,000,000,000 + 4,000,000 + 50,000 + 90,000 + 200 + 40 + 5$

D. $900,000,000 + 4,000,000 + 50,000 + 9,000 + 200 + 40 + 5$

10. Order the numbers from greatest to least.

105,141,234 105,312,639 105,243,987 105,613,456

105,613,456, 105,312,639, 105,243,987, 105,141,234

Place Value Quiz

Write the number in the forms below.

9,404,832,010

1. Expanded form

9,000,000,000 + 400,000,000 + 4,000,000 + 800,000 + 30,000 + 2,000 + 10

2. Word form nine billion, four hundred-four million, eight hundred thirty-two thousand, ten

3. Expanded notation 9 × 1,000,000,000 + 4 × 1,000,000 + 4 × 1,000,000 + 8 × 100,000 + 3 × 10,000 + 2,000 + 1 × 10

Compare the numbers below. Write <, =, or > .

4. 1,034,756,807 < 1,430,576,870

5. 5,595,221,330 < 5,599,212,303

Round the numbers below to the given place value.

6. Round 765 to the nearest 10.

770

7. Round 5,528 to the nearest 1,000.

6,000

8. Round 909 to the nearest 100.

900

Read and answer the problems below.

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

2 4 , 0 0 0

Which statement is true?

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

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

1 3, 7 5 5

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.

Addition

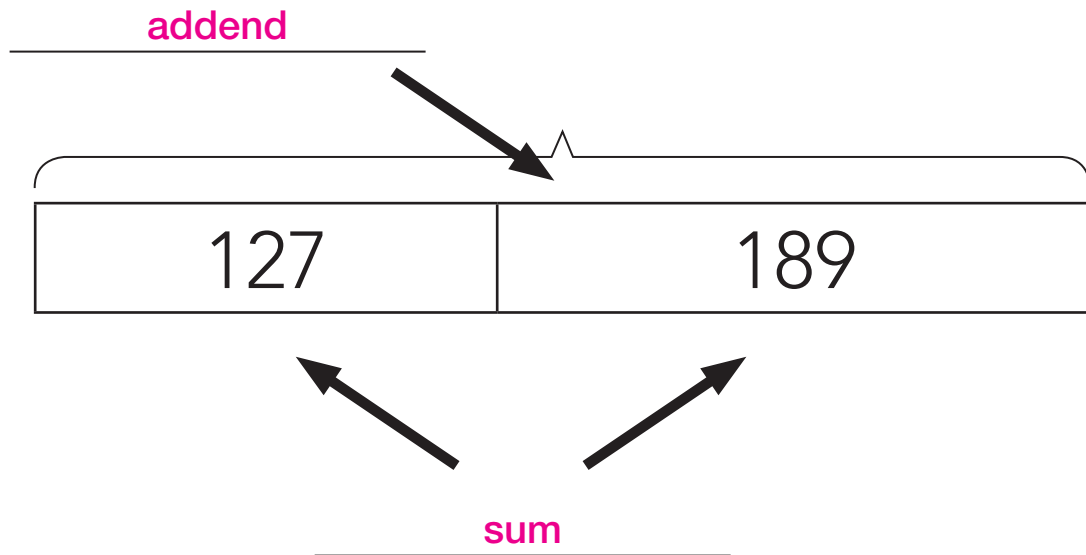
Key Words

Sample answers:
altogether
add
combine

Standard Algorithm

$$\begin{array}{r} 3,498 \\ + 2,735 \\ \hline 6,233 \end{array}$$

Strip Diagram



Equation: $127 + 189 = 316$

Subtraction

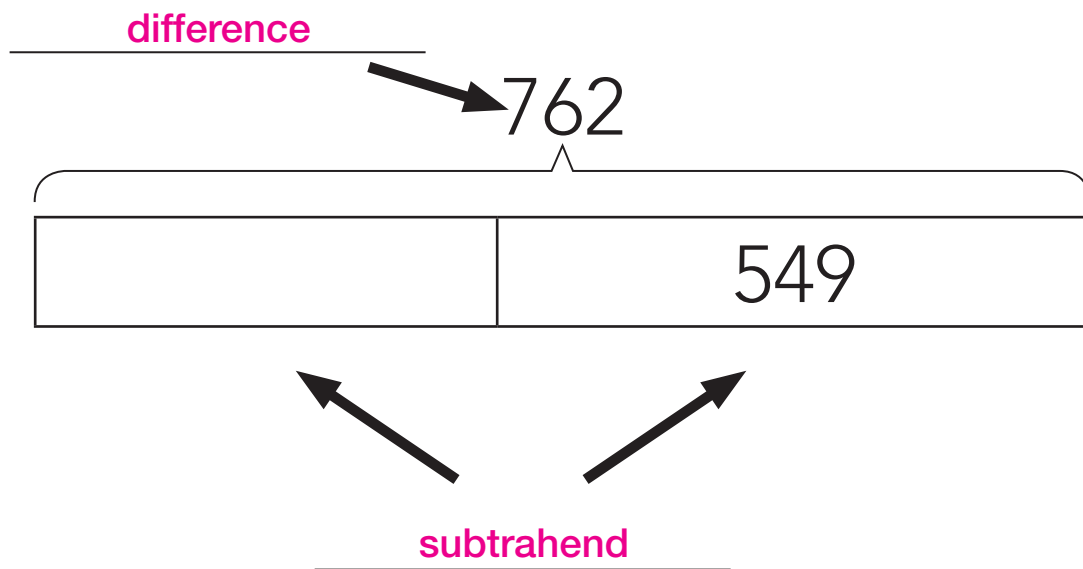
Key Words

Sample answers:
difference
more than
left

Standard Algorithm

$$\begin{array}{r} 5,237 \\ - 3,809 \\ \hline 1,428 \end{array}$$

Strip Diagram



Equation: $762 - 549 = 213$

Addition and Subtraction Quiz

Solve the problems below.

$$\begin{array}{r} 1. \quad 4,500 \\ + \quad 274 \\ \hline 4,774 \end{array}$$

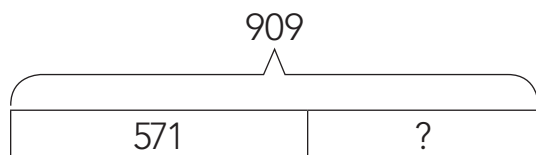
$$\begin{array}{r} 2. \quad 5,000 \\ - \quad 672 \\ \hline 4,328 \end{array}$$

$$\begin{array}{r} 3. \quad 9,020 \\ - \quad 6,593 \\ \hline 2,427 \end{array}$$

$$\begin{array}{r} 4. \quad 6,892 \\ + \quad 4,301 \\ \hline 11,193 \end{array}$$

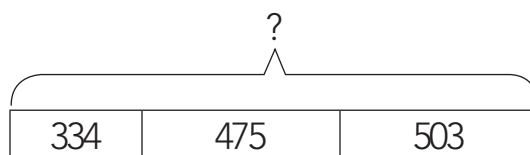
Solve each problem below.

7.



Answer: 338

8.



Answer: 1,312

9. Jill baked 265 cupcakes. If Katie made 107 more cupcakes than Jill, how many cupcakes did Katie make?

Answer: 307 cupcakes

10. Cody and Brandon collected 523 seashells last weekend. If Cody collected 299 of the seashells, how many did Brandon collect?

Answer: 224 seashells

UPS Model

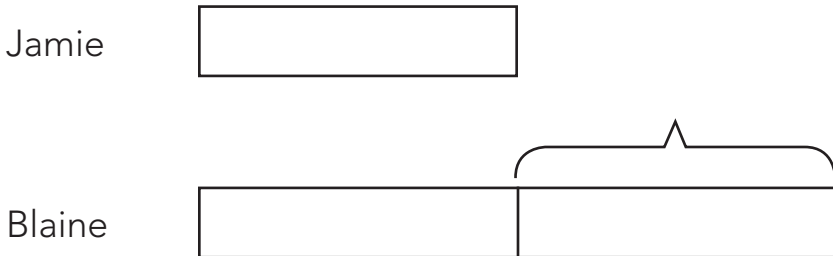
| | |
|---|--|
| <p>Understand</p> <p>How much money do they have altogether?</p> | <p>Plan</p> <p>$\\$323 + \\267</p> |
| <p>Solve</p> <p>$\\$590$</p> | <p>Check</p> <p>$\\$323 + \\$267 = \\590</p> |

Derek has \$323.
Bo has \$267 more than Derek. How much money do Derek and Bo have altogether?

Add and Subtract with Strip Diagrams

Example #1

Jamie has 241 trees on her property. Blaine has 189 more trees on his property than Jamie. How many trees do Jamie and Blaine have altogether?

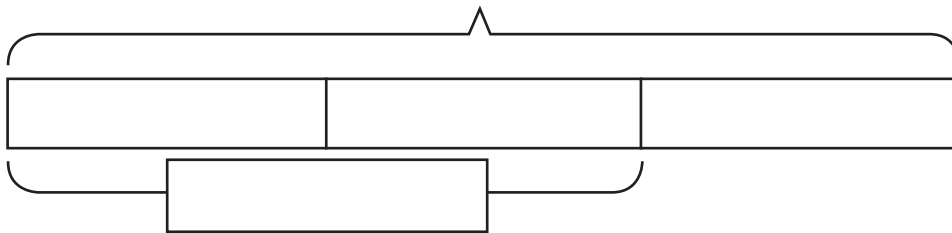


Equations: $241 + 189 = 430$ $430 + 241$

Answer: 471 trees

Example #2

Drake needs to plant 541 seeds. He planted 278 seeds on Monday and 132 seeds on Tuesday. How many seeds does Drake still have remaining to plant?



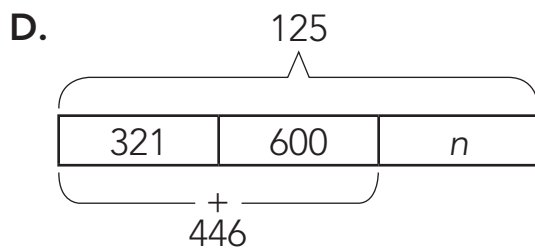
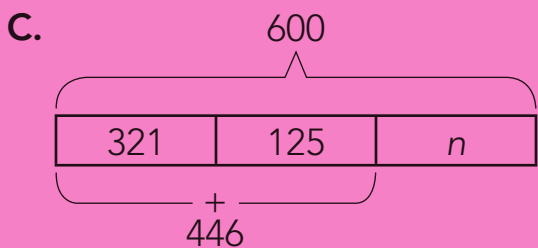
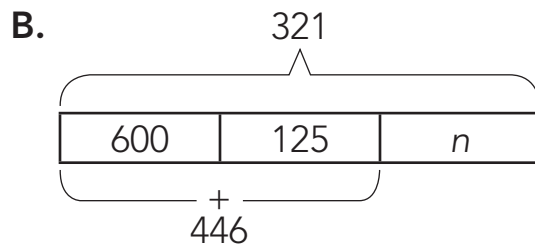
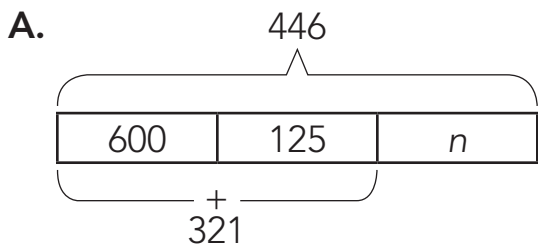
Equations: $278 + 132 = 410$ $541 - 410 = 131$

Answer: 131 seeds

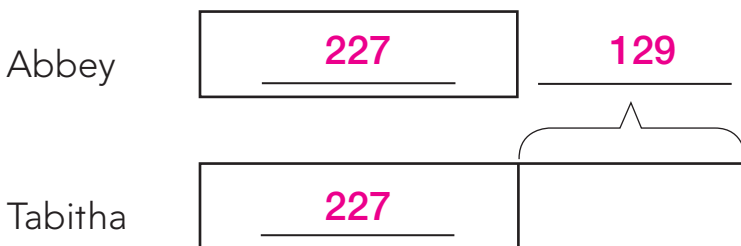
Word Problem Quiz

Read each problem below and solve.

1. Misty went shopping for school clothes. She had a budget of \$600. She spent \$321 at Classy Clothing and then \$125 at Kids' Spot. Which diagram can you use to figure out how much money, n , Misty has left in her budget?



2. Abbey found 227 seashells on the beach. Tabitha found 129 more seashells than Abbey. How many seashells did the girls find altogether? Fill in the strip diagram below to model and solve the problem.



Answer: 583 seashells

Word Problem Quiz (cont.)

Use the UPS model to solve each problem below.

| | |
|---|--|
| <p>Understand</p> <p>How many cows do they have altogether?</p> | <p>Plan</p> $455 + 455 + 164$ |
| <p>Nina's ranch has 455 cows. Fred's ranch has 164 more cows than Nina's ranch. How many cows do the two ranches have altogether?</p> | |
| <p>Solve</p> <p>1,074 cows</p> | <p>Check</p> $455 + 455 + 164 = 1,074 \text{ cows}$ |

| | |
|---|--|
| <p>Understand</p> <p>How many brochures does he have left?</p> | <p>Plan</p> $575 - 233 = 342$ $342 - 300 = 42$ |
| <p>Carl has 575 brochures to fold for his school club. He folded 233 brochures on Thursday and another 300 brochures on Friday. How many brochures does Carl have left to fold?</p> | |
| <p>Solve</p> <p>42 brochures</p> | <p>Check</p> $575 - 233 = 342$ $342 - 300 = 42 \text{ brochures}$ |

Input/Output Pairs

Find the rule.

- Examine the table and ask if the output number is larger or smaller than the input number?
larger
- What operation allows you to get larger ?
addition
- Always start with the easiest operation.
Try addition
- What plus 10 equals 18? 8
- Does 22 plus 8 equal 30? yes
- Try the rest of the table.
- Solve for the empty outputs.
- State the rule: The output is 8 more than the input.

| INPUT | OUTPUT |
|-----------|-----------|
| 10 | 18 |
| 22 | 30 |
| 36 | <u>44</u> |
| <u>46</u> | 54 |
| 64 | <u>72</u> |

Find the rule.

- Smaller or larger? smaller
- Type of operation? subtraction
- Try it.
- Does it work? yes
- Fill in the blanks in the table.
- State the rule: The output is 9 less than the input.

| INPUT | OUTPUT |
|------------|-----------|
| 55 | 46 |
| 74 | 65 |
| <u>87</u> | 78 |
| 93 | <u>84</u> |
| <u>111</u> | 102 |

Assessment

1. Compare the two numbers below. Write the correct symbol.

$$67,809,341 < 67,809,431$$

2. Write the number below in standard form.

$$(9 \times 100,000,000) + (7 \times 1,000,000) + (5 \times 10,000) + (4 \times 1,000) + (8 \times 10)$$

907,054,080

3. Round the number below to the nearest thousand.

90,352,866

Answer: **90,353,000**

4. Round the number below to the nearest ten.

405,672,108

Answer: **405,672,110**

5. Jack found 154 seashells on the beach and Gabby found 231 seashells. Estimate the difference between the number of seashells Jack and Gabby each found.

- A. 60
B. 70
C. 80
D. 90

6. Timothy found 568 arrowheads and Caiden found 655 arrowheads. About how many arrowheads did the boys find altogether?

- A. 1,300
B. 1,223
C. 1,200
D. 1,100

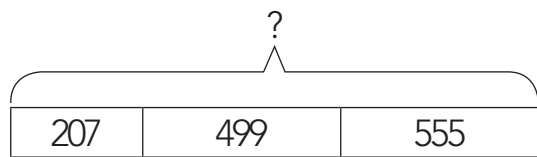
$$\begin{array}{r} 56,905 \\ + 43,008 \\ \hline 99,913 \end{array}$$

$$\begin{array}{r} 73,505 \\ - 65,327 \\ \hline 8,178 \end{array}$$

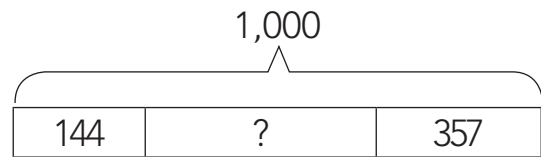
$$\begin{array}{r} 90,909 \\ + 7,070 \\ \hline 97,979 \end{array}$$

$$\begin{array}{r} 202,000 \\ - 89,554 \\ \hline 112,446 \end{array}$$

11.

Answer: 1,261

12.

Answer: 499

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

78,903,445

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.

15. The Bay Shore High School needs to raise \$10,000. If their first car wash fundraiser raised \$4,505 and their second fundraiser raised \$3,208, how much money does the school have left to raise? Draw a strip diagram to model and solve the problem.

Answer: \$2,287

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

56,79,003

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.

16. Martin earned \$328 doing yard work for his neighbors. Shane earned \$125 more than Martin. How much money did the boys earn altogether? Draw a strip diagram to model and solve the problem.

Answer: \$781

17. View the input/output table below. Find the rule and fill in the blanks.

| INPUT | OUTPUT |
|------------|------------|
| 55 | 70 |
| 83 | 98 |
| 114 | <u>129</u> |
| <u>149</u> | 164 |
| 189 | <u>204</u> |

Rule: The output is 15 more than the input.

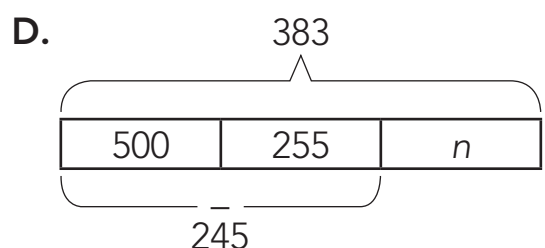
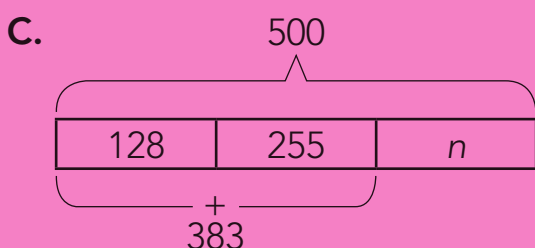
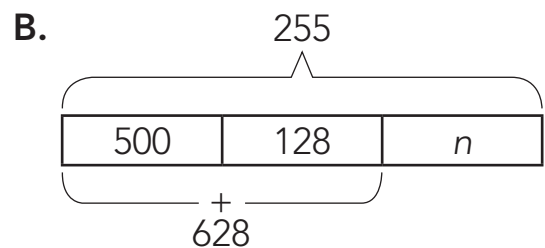
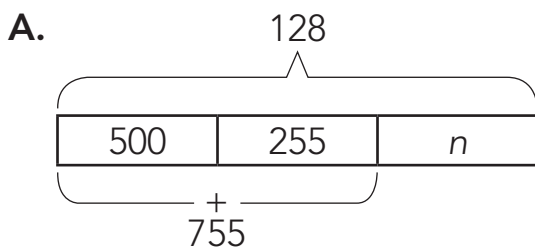
18. View the input/output table below. Find the rule and fill in the blanks.

| INPUT | OUTPUT |
|------------|-----------|
| 200 | 173 |
| 155 | 128 |
| <u>143</u> | 116 |
| 105 | <u>78</u> |
| <u>114</u> | 87 |

Rule: The output is 27 less than the input.

19. Tracie's farm has 322 cows. Kendall's farm has 129 more cows than Tracie's farm. How many cows do the two farms have altogether?
- A. 441 cows
 - B. 451 cows
 - C. 763 cows
 - D. 773 cows**

20. Frankie has a shopping budget of \$500. He spent \$128 at one store and \$255 at another. Which strip diagram can you use to figure out how much money Frankie has left in his budget?



467,909,110

Expanded Form:

$400,000,000 + 60,000,000$
 $+ 7,000,000 + 900,000$
 $+ 9,000 + 100 + 10$

Word Form:

four hundred sixty-seven
million, nine hundred nine
thousand, one hundred
ten

$$800,000,000 + 60,000,000 + 900,000 \\ + 30,000 + 5,000 + 300 + 30 + 4$$

Word Form:

**eight hundred sixty
million, nine hundred
thirty-five thousand,
three hundred thirty-four**

Standard Form:

860,935,334

Five hundred fifty-six million
twenty thousand two

Standard Form:

556,020,002

Expanded Form:

500,000,000 + 50,000,000
+ 6,000,000 + 20,000 + 2

5,806,992,447

Expanded Form:

$5,000,000,000 +$
 $800,000,000 + 6,000,000 +$
 $900,000 + 90,000 + 2,000$
 $+ 400 + 40 + 7$

Word Form:

five billion, eight hundred
six million, nine hundred
ninety-two thousand,
four hundred forty-seven

Write the number below in standard form:

one billion four hundred fifty-nine million
ninety thousand ten

1,459,090,010

Write the number below in word form:

1,458,903,003

one billion four hundred fifty-eight million, nine hundred three thousand, three

Write the number below in expanded form:

$$(1 \times 1,000,000,000) + (8 \times 100,000,000) + (5 \times 10,000,000) + (6 \times 1,000) + (9 \times 100)$$

1,810,006,900

Write the number below in expanded notation:

five billion eight hundred seventeen million
four hundred fifty-two thousand twelve

5,817,452,012

Write the number below in word form:

$$6,000,000,000 + 80,000,000 + 50,000 + 4,000 + 200 + 60 + 9$$

six billion, eighty million, fifty-four thousand, two hundred sixty-nine

Write the number below in expanded notation:

two billion four hundred eleven million
six hundred thousand seven hundred nine

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

Write the number below in expanded form:

$$(2 \times 100,000,000) + (3 \times 10,000,000) + (4 \times 100,000) + (6 \times 10,000) + (1 \times 1,000)$$

$$200,000,000 + 30,000,000 + 400,000 + 60,000 + 1,000$$

Write the number below in standard form:

$$500,000,000 + 60,000,000 + 100,000 + 40,000 + 9,000 + 300 + 20 + 9$$

560,149,329

Write the number below in expanded notation:

4,909,457,380

$$4 \times 1,000,000,000 + 9 \times 100,000,000 \\ + 9 \times 1,000,000 + 4 \times 100,000 + 5 \times \\ 10,000 + 7 \times 1,000 + 3 \times 100 + 8 \times 10$$

Write the number below in expanded form:

seven hundred eighty-four million
five hundred seventy-three thousand fifty

$$700,000,000 + 80,000,000 + 4,000,000 \\ + 500,000 + 70,000 + 3,000 + 50$$

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

87,990,2(3)3

Answer: ten times

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

7 8 , 0 4 (4) , 3 8 9

Answer: one-tenth

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

9 , 4 6 (6)

Answer: one-tenth

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

⑦7, 3 4 5

Answer: ten times

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

7 8 , 2 2 2 , 0 9 9

Answer: ten times

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

1 , 5(5)0 , 5 8 3

Answer: one-tenth

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

2 3 , 0 8 8 , 4 4 4

Answer: ten times

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

9(9), 0 2 6 , 7 4 0

Answer: one-tenth

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

6 7 , 1 (1) 1 , 0 1 1

Answer: one-tenth

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

⑥, 6 0 6 , 4 3 1

Answer: ten times

Round 732 to the nearest 10.

730

Round 3,492 to the nearest 1,000.

3,000

Round 8,449 to the nearest 100.

8,400

Round 2,735 to the nearest 10.

2,740

Round 926 to the nearest 100.

900

Round 6,082 to the nearest 1,000.

6,000

Round 9,990 to the nearest 1,000.

10,000

Round 568 to the nearest 10.

570

Round 731 to the nearest 100.

700

Round 3,499 to the nearest 1,000.

3,000

$$\begin{array}{r} 5,237 \\ + 3,809 \\ \hline 9,046 \end{array}$$

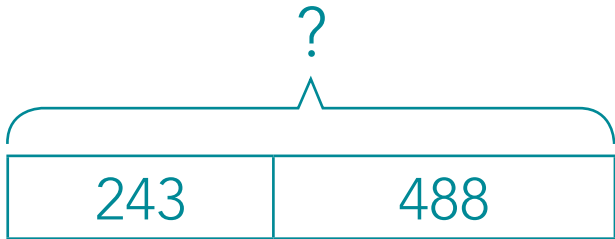
$$\begin{array}{r} 9,734 \\ + 821 \\ \hline 10,555 \end{array}$$

$$\begin{array}{r} 3,729 \\ + 2,542 \\ \hline 6,271 \end{array}$$

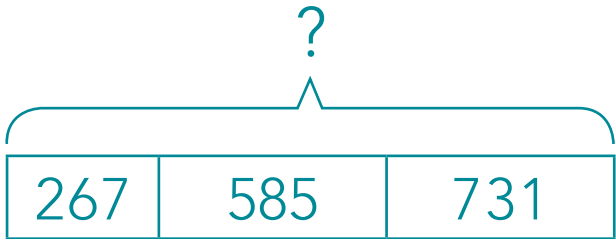
$$\begin{array}{r} 8,932 \\ + 380 \\ \hline 9,312 \end{array}$$

$$\begin{array}{r} 2,458 \\ + 990 \\ \hline 3,448 \end{array}$$

$$\begin{array}{r} 10,965 \\ + 4,672 \\ \hline 15,637 \end{array}$$



Answer: **731**



Answer: 1,583

Roger found 691 acorns outside and Ziggy found 455. How many acorns did the boys find altogether? Create a strip diagram and solve.

Answer: 1,146 acorns

Mila found 542 seashells on Monday, 69 on Tuesday, and 197 on Wednesday. How many seashells did Mila find if she combines all of the shells? Create a strip diagram and solve.

Answer: 808 shells

$$\begin{array}{r} 5,420 \\ - 882 \\ \hline 4,538 \end{array}$$

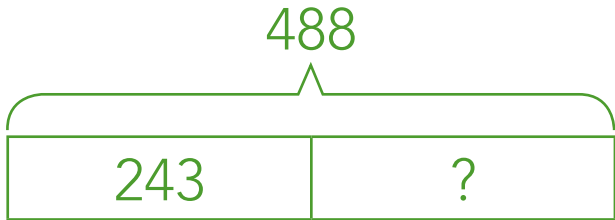
$$\begin{array}{r} 6,639 \\ - 228 \\ \hline 6,411 \end{array}$$

$$\begin{array}{r} 9,397 \\ - 6,042 \\ \hline 3,355 \end{array}$$

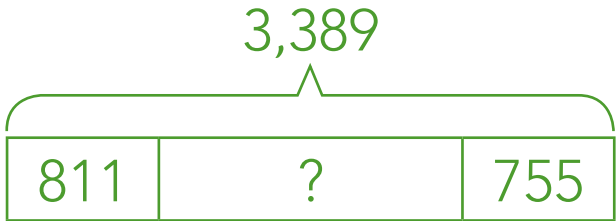
$$\begin{array}{r} 8,757 \\ - 355 \\ \hline 8,402 \end{array}$$

$$\begin{array}{r} 4,903 \\ - 792 \\ \hline 4,111 \end{array}$$

$$\begin{array}{r} 10,830 \\ - 5,021 \\ \hline 5,809 \end{array}$$



Answer: **245**



Answer: **1,823**

Miguel spent \$232 on two shirts. If one shirt cost \$164, how much did the second shirt cost? Create a strip diagram and solve.

Answer: _____ **\$68**

Abby planted 340 bushes at her school one weekend. If she planted 160 bushes on Saturday, how many bushes did she plant on Sunday? Create a strip diagram and solve.

Answer: 180 bushes

$$\begin{array}{r} 4,500 \\ - 409 \\ \hline 4,091 \end{array}$$

$$\begin{array}{r} 2,000 \\ - 233 \\ \hline 1,767 \end{array}$$

$$\begin{array}{r} 9,000 \\ - 866 \\ \hline 8,134 \end{array}$$

$$\begin{array}{r} 6,700 \\ - 909 \\ \hline 5,791 \end{array}$$

$$\begin{array}{r} 3,200 \\ - 359 \\ \hline 2,841 \end{array}$$

$$\begin{array}{r} 10,000 \\ - 7,923 \\ \hline 2,077 \end{array}$$

What is the difference between 2,800 and 459?

Answer: 2,341

Zane had \$400 to spend on a skateboard. He spent only \$289. How much money does Zane have remaining?

Answer: \$111

What is the difference between 4,500 and 1,382?

Answer: 3,118

Callie earned \$200 babysitting her neighbors. Reka earned \$142 babysitting her siblings. How much more money did Callie make than Reka?

Answer: \$58

Damien has 1,329 baseball cards and Dylan has 2,286 baseball cards.
How many baseball cards do the boys have altogether?

| Question: What are you being asked to solve? | Information: What important information will help you solve? | Clue Words: What clue words help you determine the correct operation? |
|---|--|---|
| How many baseball cards there are altogether. | How many cards Damien and Dylan each have. | altogether |
| Operation: What operation will you use to solve this problem? Think: is the total amount known or are only the parts? | Equation: Write an equation to help you solve the problem. | Solve: Solve the word problem by showing your work. |
| addition | $1,329 + 2,286 = ?$ | 3,615 baseball cards |

Merliah won 3,519 tickets playing arcade games. Giuliana won 2,476 tickets. How many more tickets did Merliah win than Giuliana?

| Question: What are you being asked to solve? | Information: What important information will help you solve? | Clue Words: What clue words help you determine the correct operation? |
|---|--|---|
| How many more tickets Merliah has. | How many tickets each person has. | how many more |
| Operation: What operation will you use to solve this problem? Think: is the total amount known or are only the parts? | Equation: Write an equation to help you solve the problem. | Solve: Solve the word problem by showing your work. |
| subtraction | $3,519 - 2,476 = ?$ | 1,043 tickets |

On Saturday, Krista worked with her dad to plant 2,345 carrot seeds in their garden. On Saturday, Aria and her dad planted 1,890 carrot seeds. How many seeds did everyone plant in all?

Answer: 4,235 seeds

Ayana and Lucia have 556 marbles combined. If Lucia has 324 marbles on her own, how many marbles does Ayana have?

Answer: 232 marbles

Ebony and Mac took pictures on their family vacation to the mountains. Ebony took 782 pictures and Mac took 489 pictures. How many pictures did Ebony and Mac take altogether?

Answer: 1,271

Trixie and Isaac went to the arcade to play games. Trixie won 4,543 tickets and Isaac won 4,497 tickets. What is the difference between the number of tickets that Trixie and Isaac won?

Answer: 46 tickets

Estimate the sum of

$$6,890 + 4,028 = ?$$

(Round to the nearest thousand.)

Answer: 11,000

Estimate the difference of
 $941 - 723 = ?$
(Round to the nearest ten.)

Answer: 220

Ricardo had 1,363 stamps.
Avery had 845 stamps. What is
the estimated difference in the
number of stamps that Ricardo
and Avery have?

Answer: 600 stamps

Eiko had 4,059 sheets of paper. He bought a new pack of paper that had 1,175 sheets. If Eiko rounds to the nearest hundred, about how many sheets of paper does he have?

Answer: 2,900 sheets of paper

Victor found 792 shells on the beach. Maddie found 394 shells and Kabir found 199 shells. About how many shells did they find in all?

Answer: 1,400 shells

Rhianne wanted to find the difference between 4,732 and 2,386. If Rhianne estimated the difference by rounding to the nearest hundred, what would the difference be?

Answer: 2,300

Understand

What is the difference between the amount of cotton plants planted?

Plan

$$300 - 189$$

Trey planted 300 cotton plants.
Mateo planted 189 cotton plants. What is the difference in the number of cotton plants Trey and Mateo planted?

Solve

111 plants

Check

$$300 - 189 = 111 \text{ plants}$$

Understand

How many miles to did they drive total?

Plan

$$450 - 127$$

Solve

323 miles

Check

$$450 - 127 = 323 \text{ miles}$$

Kyla drove
450 miles to the beach.
Sonya drove
127 miles. How many
miles combined did
Kyla and Sonya
drive?

Understand

How many more apples does Swiss' Grocery Store have?

Plan

$$2,398 - 1,482$$

Solve

916 apples

Check

$$2,398 - 1,482 = 916 \text{ apples}$$

Swiss' Grocery Store has 2,398 apples in stock. Matt's Market has 1,482 apples in stock. How many more apples does Swiss' Grocery Store have in stock than Matt's Market?

Understand

How many flags were made on Monday and Tuesday?

Plan

$$989 + 1,372$$

Solve

2,354 flags

Check

$$989 + 1,372 = 2,354 \text{ flags}$$

The American Flag Company produced 989 flags on Monday and 1,372 flags on Tuesday. How many flags were produced altogether on Monday and Tuesday?

Chun is going to her grandmother's house, which is 780 miles away.

On Friday, she went 335 miles and another 278 miles on Saturday. How many miles does Chun still have left to go?

Answer: 167 miles

Muhammad earned \$220 mowing lawns. Shemar earned \$165 more than Muhammad by mowing lawns. How much did Muhammad and Shemar earn altogether?

Answer: **\$385**

Jocelyn made 432 cupcakes for her school's bake sale. Javier made 250 cupcakes for the bake sale. Jocelyn and Javier put their cupcakes together. If they sold 379 cupcakes, how many cupcakes are remaining?

Answer: 303 cupcakes

Jet Speed Airlines has 845 airplanes. Jet Way Airlines has 526 more airplanes than Jet Speed. How many airplanes do Jet Speed and Jet Way Airlines have altogether?

Answer: 2,216 airplanes

| INPUT | OUTPUT |
|-----------|-----------|
| 3 | 9 |
| 64 | 70 |
| 18 | <u>24</u> |
| <u>24</u> | 30 |
| 40 | <u>46</u> |

Rule:
The output is 6 more than the input.

| INPUT | OUTPUT |
|-----------|----------|
| 50 | 45 |
| 32 | 27 |
| <u>19</u> | 14 |
| 9 | <u>4</u> |
| <u>8</u> | 3 |

Rule:

The output is 5 less than the input.

| INPUT | OUTPUT |
|------------|------------|
| 111 | 100 |
| 132 | 121 |
| 164 | <u>153</u> |
| <u>188</u> | 177 |
| 200 | <u>189</u> |

Rule:

The output is
11 less than
the input.

| INPUT | OUTPUT |
|------------|------------|
| 435 | 450 |
| 515 | 530 |
| <u>630</u> | 645 |
| 700 | <u>715</u> |
| <u>785</u> | 800 |

Rule:

The output is
15 more than
the input.

| INPUT | OUTPUT |
|------------|------------|
| 420 | 398 |
| 362 | 340 |
| 298 | <u>276</u> |
| <u>200</u> | 178 |
| 150 | <u>128</u> |

Rule:

The output is
22 less than
the input.

| INPUT | OUTPUT |
|------------|------------|
| 131 | 236 |
| 244 | 349 |
| <u>300</u> | 405 |
| 490 | <u>595</u> |
| <u>451</u> | 556 |

Rule:

The output is 105 more than the input.

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

$$56,898,054 \underline{>} 56,889,045$$

Write the number below in expanded notation:

seven billion nine hundred fifty-five million three hundred thirty-four thousand eighteen

$$\underline{7 \times 1,000,000,000 + 9 \times 100,000,000 +}$$

$$\underline{5 \times 10,000,000 + 5 \times 1,000,000 +}$$

$$\underline{3 \times 100,000 + 3 \times 10,000 + 4 \times 1,000 +}$$

$$\underline{1 \times 10 + 8}$$

Round the number below.

56,890,298

To the nearest thousand:

56,890,000

To the nearest hundred:

56,890,300

To the nearest ten:

56,890,300

Examine the input/output table.
Determine the rule for the table.
Then complete the table.

| INPUT | OUTPUT |
|------------|------------|
| 25 | 52 |
| 40 | 67 |
| <u>68</u> | 95 |
| 100 | <u>127</u> |
| <u>116</u> | 143 |

Rule: The output is 27 more
than the input.

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

$$354 - 187 = \underline{167}$$

Jameelah has 198 ribbons.
If Meredith has 116 more ribbons
than Jameelah, how many ribbons
do the girls have altogether?

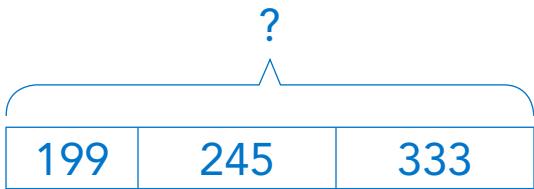
Answer: 512 ribbons

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

8 9 (9), 0 4 1

Answer: one-tenth

Solve the strip diagram below.



Answer: 777

Solve the problem below.

$$\begin{array}{r} 8,000 \\ - 4,593 \\ \hline 3,407 \end{array}$$

Sergio needs to chop 235 pieces of firewood. He chopped 75 pieces on Saturday and then another 112 pieces on Sunday. How many pieces of firewood does Sergio still need to chop? Draw a strip diagram to model and solve.

Answer: 48 pieces of firewood

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

5 8 9 , 0 0 2 , 2 1 3

Which statement is true?

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

Examine the input/output table.
Determine the rule for the table.
Then complete the table.

| INPUT | OUTPUT |
|------------|------------|
| 264 | 240 |
| 222 | 198 |
| 186 | <u>162</u> |
| <u>174</u> | 150 |
| 123 | <u>99</u> |

Rule: The output is 24 less
than the input.