

Final Revision



Reveal Math Grade 5

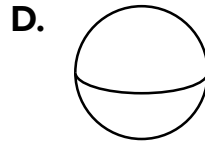
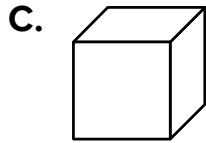
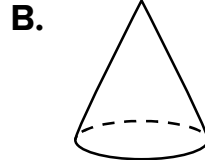
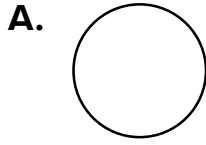
مركز دعم مدرسة عبد الجليل الفهيم

Unit 2

Unit 2 Assessment, Form A

Name _____

1. Which of these figures has volume? Choose all that apply.



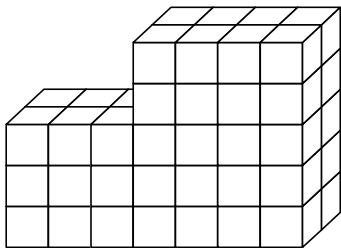
2. For which situation would you measure using unit cubes?

- A. the amount of floor space covered by a carpet
- B. the distance between two classrooms
- C. the amount of wall space taken up by a window
- D. the amount of space inside a box

3. Mya is filling a jumping pit with foam blocks. The area of the bottom of the pit is 168 square feet. If the height of the jumping pit is 4 feet, what is the volume of the pit?

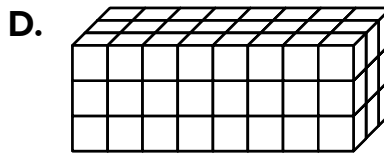
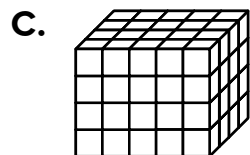
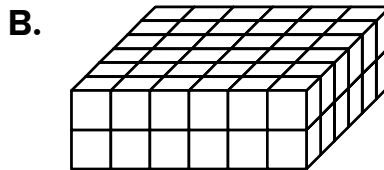
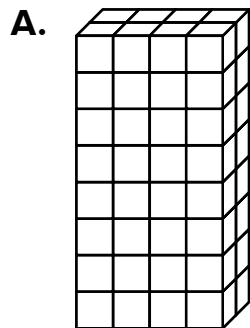
- A. 172 cubic feet
- B. 672 cubic feet
- C. 1,344 cubic feet
- D. 2,688 cubic feet

4. What is the volume of the figure?

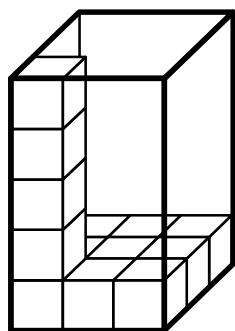


- A. 54 cubic units
- B. 56 cubic units
- C. 58 cubic units
- D. 60 cubic units

5. Which rectangular prisms have a volume of 72 cubic units? Choose all that apply.



6. Seth partially fills a rectangular prism with unit cubes, as shown.



The volume of the rectangular prism is _____ cubic units.

7. The volume of a rectangular prism is 80 cubic inches. Which could be the dimensions of the prism? Choose all that apply.

- A.** length = 40 inches, width = 15 inches, height = 25 inches
- B.** length = 8 inches, width = 5 inches, height = 2 inches
- C.** length = 10 inches, width = 2 inches, height = 4 inches
- D.** length = 30 inches, width = 20 inches, height = 30 inches
- E.** length = 20 inches, width = 4 inches, height = 1 inch

Unit 2

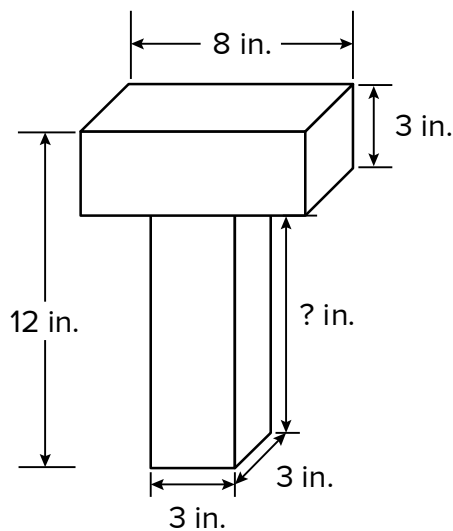
Unit 2 Assessment, Form A (continued)

Name _____

8. Lydia's school box is 10 inches long, 8 inches wide, and 4 inches high. What is the volume of the school box?

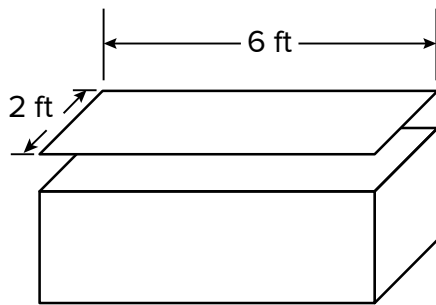
A. 22 cubic inches
B. 24 cubic inches
C. 320 cubic inches
D. 480 cubic inches

9. What is the volume of the T?



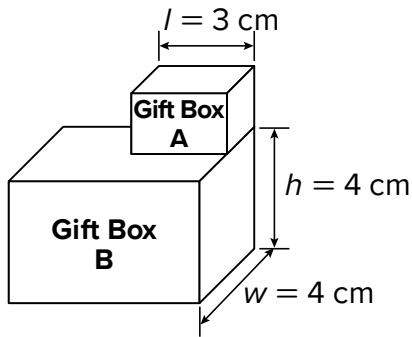
A. 288 cubic inches
B. 153 cubic inches
C. 105 cubic inches
D. 288 cubic inches

10. A toy chest has a volume of 48 cubic feet. How tall is the toy chest?



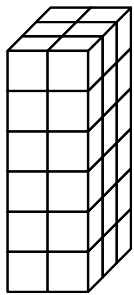
The toy chest is _____ feet tall

11. The two gift boxes have a combined volume of 108 cubic centimeters. The dimensions of Gift Box A are half the dimensions of Gift Box B.

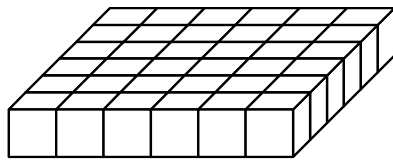


Which statement about the gift boxes is true?

- A. The volume of Gift Box A is 7 cubic cm, and the volume of Gift Box B is 14 cubic cm.
 - B. The volume of Gift Box A is 12 cubic cm, and the volume of Gift Box B is 64 cubic cm.
 - C. The volume of Gift Box A is 12 cubic cm, and the volume of Gift Box B is 96 cubic cm.
 - D. The volume of Gift Box A is 36 cubic cm, and the volume of Gift Box B is 72 cubic cm.
12. Janelle and Robert each build a figure using centimeter cubes.



Janelle's figure



Robert's figure

Janelle says that her figure has greater volume than Robert's figure because it is taller. Is Janelle correct? Explain.



Unit Review

Name _____

Vocabulary Review

Choose the correct word(s) to complete each sentence.

composite solid figure

cubic unit

formula

rectangular prism

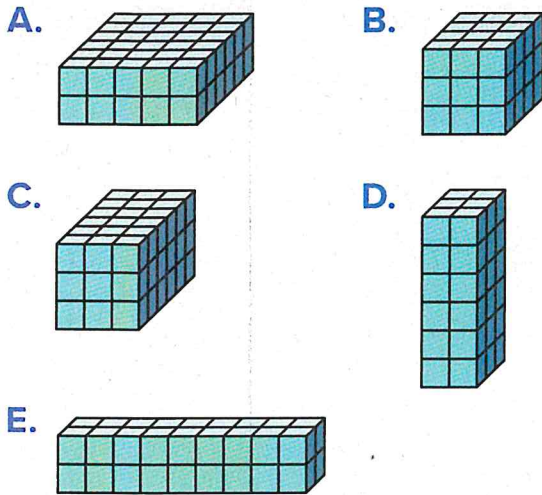
unit cube

volume

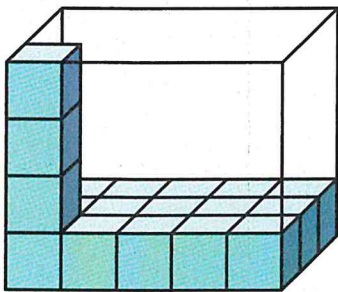
1. A _____ is a solid figure that is made up of two or more solids. (Lesson 2-4)
2. The space occupied by a 3-dimensional figure, or solid figure, is called _____. (Lesson 2-1)
3. A cube with edge lengths of one unit is called a _____. (Lesson 2-1)
4. A _____ is a unit for measuring volume. (Lesson 2-2)
5. A _____ is an equation that describes the relationship between two or more quantities. (Lesson 2-3)
6. A 3-dimensional figure with six rectangular faces is called a _____. (Lesson 2-1)

Review

7. Which rectangular prisms have a volume of 36 cubic units? Select all that apply. (Lesson 2–3)



8. The figure shows a rectangular prism partially filled with unit cubes. (Lesson 2–2)



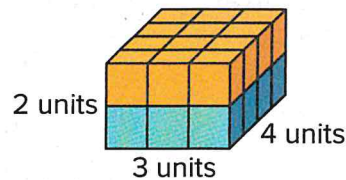
What is the volume of the rectangular prism?

_____ cubic units

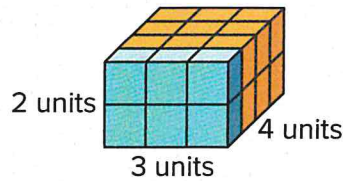
9. Which equation represents the different ways to find the volume of these figures?

(Lesson 2–3)

Prism A:



Prism B:

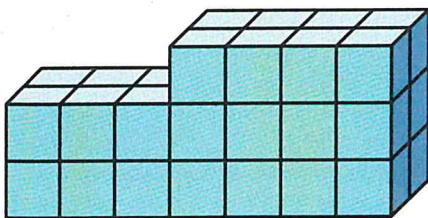


- A. $(4 \times 3) \times 2 = 4 \times (3 \times 2)$
 B. $(3 \times 4) \times 2 = (4 \times 3) + 2$
 C. $3 \times (4 \times 2) = (3 \times 4) \times (3 \times 2)$
 D. $3 \times (4 + 2) = (3 \times 4) + (3 \times 2)$
10. A rectangular pool is 42 feet long, 15 feet wide, and 4 feet high. It is filled with water to a depth of 3 feet. What is the volume of the water in the pool? (Lesson 2–5)
- A. 4,410 cubic feet
 B. 2,520 cubic feet
 C. 630 cubic feet
 D. 1,890 cubic feet

11. The volume of a rectangular prism is 48 cubic inches. Which could be the dimensions of the prism?
Select all that apply. (Lesson 2-3)

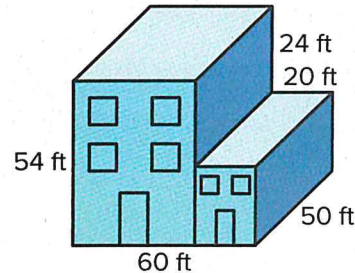
- A. length = 24 inches
width = 1 inch
height = 2 inches
- B. length = 6 inches
width = 6 inches
height = 4 inches
- C. length = 16 inches
width = 16 inches
height = 16 inches
- D. length = 12 inches
width = 2 inches
height = 2 inches

12. What is the volume of this figure?
(Lesson 2-4)



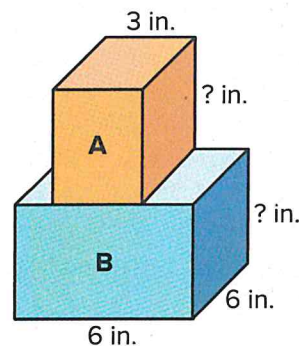
- A. 32 cubic units
- B. 38 cubic units
- C. 34 cubic units
- D. 36 cubic units

13. The figure shows the plans for a warehouse.



What will be the volume of the warehouse? (Lesson 2-4)

- A. 72,000 cubic feet
 - B. 210,000 cubic feet
 - C. 138,000 cubic feet
 - D. 162,000 cubic feet
14. The combined volume of the two boxes shown is 270 cubic inches. Box A and Box B have the same width and height. Box B has twice the volume of Box A. (Lesson 2-4)



Fill in the height and volume of each box.

	Height (in.)	Volume (cubic in.)
Box A		
Box B		

Unit 3

Unit Assessment, Form A

Name _____

1. Which statement about the digits in the number 39,906 is true?
- A.** The value of the digit 9 in the thousands place is 10 times the value of the digit 9 in the hundreds place.
- B.** The value of the digit 9 in the thousands place is $\frac{1}{10}$ the value of the digit 9 in the hundreds place.
- C.** The value of the digit 9 in the thousands place is 100 times the value of the digit 9 in the hundreds place.
- D.** The value of the digit 9 in the thousands place has the same value as the digit 9 in the hundreds place.

2. How can you write the number in standard form?

In standard form, the number *nine hundred two and fifty-one thousandths* is written _____.

3. Look at the digit 7 in the numbers given in the place-value chart.

hundred thousands	ten thousands	thousands	hundreds	tens	ones
7	9	7	2	6	4
	7	0	1	3	8

Which statement is true? Choose all that apply.

- A.** 70,000 is $\frac{1}{10}$ of 700,000
- B.** 7,000 is 10 times 700,000
- C.** 70,000 is $\frac{1}{10}$ of 7,000
- D.** 7,000 is $\frac{1}{10}$ of 70,000
- E.** 70,000 is 10 times 7,000

4. Use the place value chart to complete the statement.

hundreds	tens	ones	tenths	hundredths	thousandths
4	6	5	5	5	1

The value of the digit 5 in the tenths place is $\frac{1}{10}$ the value of the digit 5 in the _____ place.

- A. ones B. tenths C. hundredths

5. Is each comparison *True* or *False*?

	True	False
a. $0.12 < 0.2$		
b. $0.407 > 0.446$		
c. $0.089 < 0.09$		
d. $0.61 > 0.06$		
e. $0.555 < 0.55$		
f. $0.34 = 0.034$		

6. A centimeter is 0.01 meter. A millimeter is 0.001 meter.

How does the length of 1 centimeter compare to the length of 1 millimeter? Explain your answer.

7. What is the expanded form of 405.072?

- A. $40 + 5 + \frac{7}{100} + \frac{2}{1,000}$
- B. $40 + 5 + \frac{7}{10} + \frac{2}{100}$
- C. $400 + 5 + \frac{7}{10} + \frac{2}{100}$
- D. $400 + 5 + \frac{7}{100} + \frac{2}{1,000}$

Unit 3
Unit Assessment, Form A (continued)

Name _____

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8. Do the numbers round to 5.3 when rounded to the nearest tenth? Choose *Yes* or *No* for each number.

		Yes	No
a.	5.26		
b.	5.38		
c.	5.227		
d.	5.308		
e.	5.251		

9. What is the decimal form of each fraction? Draw a line to match. Not all decimals will be used.

$$\frac{333}{1000}$$

$$\frac{3}{100}$$

$$\frac{33}{100}$$

$$\frac{3}{1000}$$

0.3

0.03

0.003

0.33

0.033

0.333

10. The table shows the time it took Kara and Soo to each run the 100-meter dash.

Student	Time (seconds)
Kara	14.09
Soo	14.22

Which student ran faster? Explain how you know.

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How can you round the number?

11. 0.291 rounded to the nearest tenth is _____.
12. 0.291 rounded to the nearest hundredth is _____.
13. Which is the correct word form for 302.07?
- A. thirty-two and seven hundredths
 - B. three hundred two and seven tenths
 - C. three hundred two and seven hundredths
 - D. three hundred two and seven thousandths
14. Rounded to the nearest 10 dollars, Holly spent about \$30.00 at the store. Which could be the exact amount of her purchases? Choose all that apply.
- A. \$23.95
 - B. \$28.25
 - C. \$32.88
 - D. \$35.45
 - E. \$38.25
15. Henri rounded the decimal 8.446 to the nearest tenth as 8.5. He reasoned that the digit 6 in the thousandths place rounded the number to 8.45, and so the digit 5 in the hundredths place rounds the number to 8.5 to the nearest tenth. Is Henri correct? Explain.



Unit Review

Name _____

Vocabulary Review

Choose the correct word(s) to complete each sentence.

decimal

tenths

place value

hundredths

decimal point

thousandths

1. A _____ is a period that separates the ones and the tenths in a decimal number. (Lesson 3-2)
2. _____ is a place value position.
It represents $\frac{1}{1,000}$ of a whole. (Lesson 3-2)
3. _____ is a place value position.
It represents $\frac{1}{100}$ of a whole. (Lesson 3-2)
4. The value given to a digit by its position in a number is called _____ . (Lesson 3-1)
5. A number that has a digit in the tenths place, hundredths place, and beyond is called a _____ . (Lesson 3-2)
6. _____ is a place value position. It represents $\frac{1}{10}$ of a whole. (Lesson 3-2)

Review

7. Which statement correctly compares values of the digit 8 in 284,560 and 128,773? (Lesson 3-1)
- A. The value of the digit 8 in 284,560 is $\frac{1}{10}$ the value of the digit 8 in 128,773.
- B. The value of the digit 8 in 284,560 is 10 times the value of the digit 8 in 128,773.
- C. The value of the digit 8 in 284,560 is 10,000 times the value of the digit 8 in 128,773.

8. Complete the sentence. (Lesson 3-3)
- In standard form, the number *thirty-six and eight hundred fourteen thousandths* is written as _____

9. Determine whether each comparison is *true* or *false*. (Lesson 3-4)

	True	False
$0.49 < 0.5$		
$0.304 > 0.333$		
$0.019 < 0.09$		
$0.08 > 0.81$		
$0.111 < 0.11$		
$0.68 = 0.068$		

10. Complete each sentence.

(Lesson 3-5)

0.737 rounded to the nearest hundredth is _____.

0.737 rounded to the nearest tenth is _____.

11. Do the numbers round to 8.1 when rounded to the nearest tenth? Choose *yes* or *no*. (Lesson 3-5)

	Yes	No
7.99		
8.162		
8.074		
8.13		
8.012		

12. The table show the lengths of the tracks at Valley High School and Eastside High School. (Lesson 3-4)

School	Length of Track (in meters)
Valley H.S.	398.25
Eastside H.S.	398.09

Write a comparison using $>$, $<$, or $=$.



13. Which of the following statements is *true*? (Lesson 3-2)

- A.** 0.002 is 10 times 0.02
- B.** 0.02 is $\frac{1}{10}$ of 0.002
- C.** 0.02 is 10 times 0.002
- D.** 2 is $\frac{1}{10}$ of 0.2

14. Complete the sentence. (Lesson 3-2)

7 is _____ 0.7.

15. Complete the sentence. (Lesson 3-2)

0.05 is _____ 0.5.

16. Complete the expanded form of the number 8.207. (Lesson 3-3)

$$8 + 2 \times \underline{\quad} + \underline{\quad} \times \frac{1}{1,000}$$

17. Write the decimal number in standard form. (Lesson 3-3)

$$3 \times \frac{1}{100} + 9 \times \frac{1}{1,000}$$

18. Write 44.259 in word form:

(Lesson 3-3)

19. List three different decimal numbers that, when rounded to the nearest tenth, round to 3.2.

(Lesson 3-5)

20. Show two different ways to write the expanded form of the number 3.48. (Lesson 3-3)

Unit 4

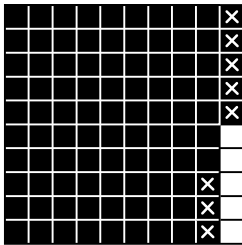
Unit Assessment, Form A

Name _____

1. Where Robert lives, the average high temperature in July is 87.4°F . The average low temperature in July is 64.8°F . Which equation best estimates the difference between the average high and low temperatures in July?

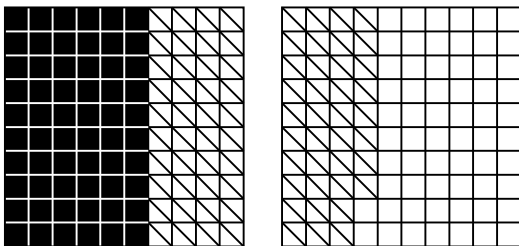
- A. $87 - 65 = 22$
- B. $88 - 64 = 24$
- C. $88 - 65 = 23$
- D. $87 - 64 = 23$

2. What equation is shown by the decimal grid?



- A. $1 - 0.05 = 0.95$
- B. $0.95 - 0.08 = 0.87$
- C. $0.95 - 0.8 = 0.87$
- D. $0.87 - 0.08 = 0.79$

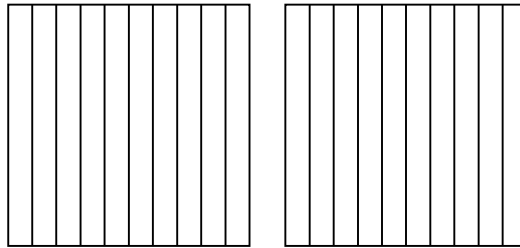
3. What equation is represented by the decimal grids?



$0.6 + \underline{\quad\quad} = \underline{\quad\quad}$

4. What is the sum? Use the decimal grids to solve.

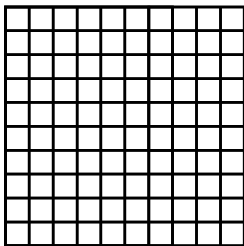
$$0.6 + 0.2 = \underline{\hspace{2cm}}$$



- A. 0.08
- B. 0.62
- C. 0.8
- D. 6.2

5. What is the difference? Use the decimal grid to solve.

$$0.7 - 0.12 = \underline{\hspace{2cm}}$$



- A. 0.05
- B. 0.58
- C. 0.62
- D. 0.82

6. Which of the following is a correct way to find $26.34 + 12.53$?
Choose all that apply.

- A. $2 + 1 + 6 + 2 + 3 + 5 + 4 + 3$
- B. $2 + 1 + 6 + 2 + 0.3 + 0.5 + 0.4 + 0.3$
- C. $20 + 10 + 6 + 2 + 0.3 + 0.5 + 0.04 + 0.03$
- D. $26 + 12 + 0.34 + 0.53$

Unit 4

Unit Assessment, Form A (continued)

Name _____

7. Francesca has a recipe that calls for 0.7 cup of milk and 0.42 cup of chicken broth. How many cups of liquid does Francesca need for the recipe?
- A. 0.28 cup
 - B. 0.32 cup
 - C. 0.49 cup
 - D. 1.12 cups
8. At the long-jump event, Ben's first jump was 6.2 meters. His second jump was 5.9 meters. How much longer was his first jump?
- A. 0.3 meter
 - B. 0.7 meter
 - C. 1.7 meters
 - D. 12.1 meters
9. Margaret walked 2.38 miles yesterday. She walked 1.19 miles today. About how many miles did Margaret walk both days?
10. A new pencil is 22.85 centimeters long. A pencil that Rick has been using is now 12.73 centimeters long. About how much longer is the new pencil?
11. Isla makes 2.7 liters of lemonade. After serving lemonade to her friends, she has 0.19 liter left. How many liters of lemonade did Isla serve to her friends?

- 12.** Hannah and her father catch two fish. The first fish weighs 3.5 pounds. The second fish weighs 0.42 pound less than the first fish. What is the combined weight of the two fish?
- 13.** Zeke and his brother had dinner at their favorite restaurant. The total cost for their two entrees was \$41.33. The cost of Zeke’s meal was \$12.99. What was the cost of his brother’s meal? Which strategy did you use to solve?
- 14.** A cable that is 18.73 meters long is to be connected to another cable that is 12.46 meters long. What will be the length of the new cable? Which strategy did you use to solve?
- 15.** A spool contains 45.5 meters of wire. Raphael uses 28.82 meters of the wire for a project. What is the length of the wire left on the spool? Explain how you found your answer. Which strategy did you use to solve?



Unit Review

Name _____

Vocabulary Review

Choose the correct word(s) to complete each sentence.

estimate

decimal grid

decompose

partial sums

decimal

1. A number that has a digit in the tenths place, hundredths place, and beyond is called a(n) _____. (Lesson 4-1)
2. To _____ a number means to break the number into parts by place value or by whole number and decimals.
(Lesson 4-4)
3. A tool that can be used to represent tenths and hundredths is called a(n) _____. (Lesson 4-2)
4. Add the parts of decomposed numbers to find _____.
(Lesson 4-4)
5. A number close to an exact value is called a(n) _____.
(Lesson 4-1)

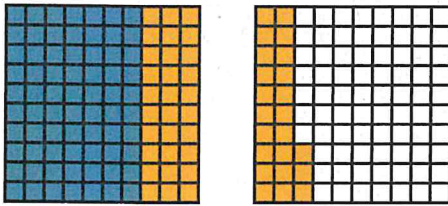
Review

6. Wesley drove 81.23 miles before lunch and 49.49 miles after lunch.

Round each number to the nearest whole number to estimate of the total number of miles Wesley drove. (Lesson 4-1)

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

7. Look at the decimal grids.



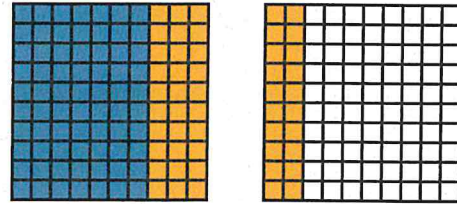
Complete the addition equation that is represented by the decimal grids. (Lesson 4-2)

$$0.7 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

8. Use partial sums to add. Show your work. (Lesson 4-4)

$$4.23 + 1.6 = \underline{\hspace{2cm}}$$

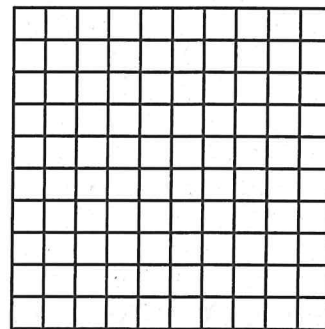
9. Lucia used a decimal grid to solve $0.69 + 0.5$.



Which statement can help Lucia correct her work? (Lesson 4-3)

- A. She should start with a number less than 0.69.
- B. She should add more.
- C. She should start with 0.69.
- D. She should add fewer.

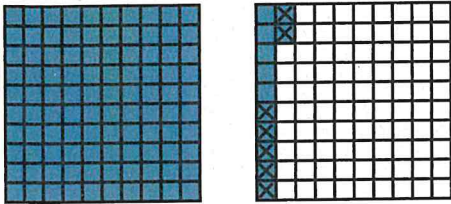
10. Use the decimal grid to solve $0.31 - 0.07 = d$. (Lesson 4-5)



What is the value of d ?

$$d = \underline{\hspace{2cm}}$$

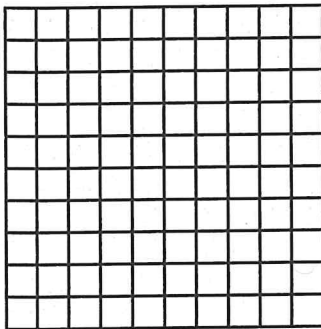
11. Benny used a decimal grid to solve $1.12 - 0.7$.



Which statement can help Benny correct his work? (Lesson 4-6)

- A. He should start with a number less than 1.12.
 - B. He should count back by more.
 - C. He should start with a number greater than 1.12.
 - D. He should count back by fewer.
12. Use a decimal grid to subtract.
(Lesson 4-5)

$0.70 - 0.08 =$ _____



13. Decompose by place value to subtract. Show your work.
(Lesson 4-7)

$5.70 - 2.08 =$ _____

14. Marcus weighs two puppies. The first puppy weighs 2.88 kilograms. The second puppy weighs 2.35 kilograms more than the first puppy.

What is the weight of the second puppy? Explain how you determined which strategy to use. (Lesson 4-8)

16. What is the difference? Explain the strategy you use. (Lesson 4-8)

$7.2 - 5.86 =$ _____

Unit 5

Unit Assessment, Form A

Name _____

1. Which is equivalent to 10^5 ? Choose all that apply.
- A. 10×5
 - B. $10 \times 10 \times 10 \times 10$
 - C. $10 \times 10 \times 10 \times 10 \times 10$
 - D. $10 \times 10 \times 10 \times 10 \times 10 \times 10$
 - E. 10,000
 - F. 100,000
2. A square has side length of 10. Which represents the area of the square? Choose all that apply.
- A. 10×2
 - B. $10 + 10 + 10 + 10$
 - C. 10^2
 - D. 10×10
 - E. 40
 - F. 100
3. Which is equivalent to 75×10^4 ?
- A. 750
 - B. 75,000
 - C. 750,000
 - D. 7,500,000
4. What exponential form completes the equation?
 $81 \times \underline{\hspace{2cm}} = 81,000$
5. Which is the most reasonable estimate for 29×681 ?
- A. 20×600
 - B. 30×700
 - C. 200×700
 - D. 300×600

6. A rectangular pasture measures 618 feet long and 32 feet wide. About how much is the area of the pasture?

7. Which product is shown by the area model?

	700 + 20 + 5		
40	28,000	800	200
+			
6	4,200	120	30

- A. $40 \times 700 = 28,000$
- B. $40 \times 725 = 29,000$
- C. $46 \times 725 = 29,570$
- D. $46 \times 725 = 33,350$

8. Which sum shows how to calculate 26×648 using partial products?

- | | | |
|---|---|---|
| <p>A.</p> $\begin{array}{r} 12,000 \\ 800 \\ 160 \\ 3,600 \\ 240 \\ + 48 \\ \hline 16,848 \end{array}$ | <p>B.</p> $\begin{array}{r} 12 \\ 8 \\ 16 \\ 36 \\ 24 \\ + 48 \\ \hline 144 \end{array}$ | <p>C.</p> $\begin{array}{r} 600 \\ 40 \\ 8 \\ 20 \\ + 6 \\ \hline 674 \end{array}$ |
|---|---|---|

9. Which product is correct? Choose all that apply.

- | | |
|--|---|
| <p>A.</p> $\begin{array}{r} 296 \\ \times 3 \\ \hline 678 \end{array}$ | <p>B.</p> $\begin{array}{r} 548 \\ \times 8 \\ \hline 4,384 \end{array}$ |
| <p>C.</p> $\begin{array}{r} 416 \\ \times 7 \\ \hline 28,742 \end{array}$ | <p>D.</p> $\begin{array}{r} 473 \\ \times 5 \\ \hline 2,365 \end{array}$ |

Unit 5
Unit Assessment, Form A (continued)

Name _____

10. What is the product? Use an algorithm.

$$\begin{array}{r} 749 \\ \times 42 \\ \hline \end{array}$$

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

11. A taxi service charges \$57 for a ride from the suburbs to an airport. During one week, the company had 38 fares. How much money did the taxi company earn?

- A. \$627
- B. \$1,556
- C. \$2,166
- D. \$2,400

12. In its frame, a rectangular painting measures 84 centimeters long and 56 centimeters wide. How much wall space does the painting cover? Explain the strategy you used to find the answer.

13. The average attendance at a town's high school football games is 3,627 people per game. How many people attended the team's 7 home games this season? Give an estimate and the exact number. Explain your strategies.

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14. A theater has 2,785 seats. For a show's 29 performances, every seat was filled. How many people saw the show? Explain the strategy you used to find the answer.

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Unit Review

Name _____

Vocabulary Review

Choose the correct word(s) to complete each sentence.

algorithm

exponential form

base

partial products

exponent

power of 10

estimate

round

- When multiplying multi-digit numbers, you can decompose the factors and find _____. Then, you add the _____ to get the product. (Lesson 5-4)
- The _____ of a number written in exponential form tells you how many times the base is multiplied by itself. (Lesson 5-1)
- The _____ of a number includes a base raised to a power called the _____. (Lesson 5-1)
- To estimate a solution, you can _____ the values used before performing operations. (Lesson 5-3)
- A(n) _____ is written in exponential form using 10 as the base and the number of times 10 is multiplied by itself as the power, or exponent. (Lesson 5-1)
- A(n) _____ is an approximate solution to a problem. (Lesson 5-3)
- A(n) _____ is a set of steps used to solve a problem.



Review

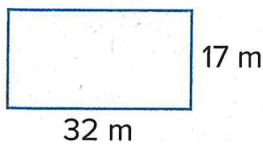
8. Which expression or value is equivalent to 10^4 ? (Lesson 5-1)

- A. 1,000
- B. 10×4
- C. $10 \times 10 \times 10 \times 10$
- D. $10 + 10 + 10 + 10$

9. The rock museum has 324 display drawers. Each drawer holds 23 rock samples. About how many rock samples does the museum have? (Lesson 5-3)

There are about _____ rock samples.

10. Use an area model to find the area of the outdoor recreational center. (Lesson 5-4)



The area is _____ square meters.

11. Complete the partial products to find 328×14 . (Lesson 5-5)

$$\begin{array}{r}
 328 \\
 \times 14 \\
 \hline
 3,000 \leftarrow 10 \times 300 \\
 \boxed{} \leftarrow 10 \times 20 \\
 \boxed{} \leftarrow 10 \times 8 \\
 1,200 \leftarrow 4 \times 300 \\
 80 \leftarrow 4 \times 20 \\
 \boxed{} \leftarrow 4 \times 8
 \end{array}$$

$328 \times 14 =$ _____

12. Blaire reads 242 pages each week. How can she use partial products or an algorithm to find the number of pages she reads in 6 weeks? (Lesson 5-6)

13. Find the product using an algorithm. (Lesson 5-7)

$429 \times 31 =$ _____



14. Which equation or equations are true? Select all. (Lesson 5-2)

- A. $7 \times 100 = 7 \times 10 \times 10 \times 10$
- B. $2 \times 1,000 = 2 \times 10^3$
- C. $50 \times 10 \times 10 \times 10 = 50,000$
- D. $8 \times 10^3 = 8 \times 10 \times 10$
- E. $16 \times 10^2 = 160$

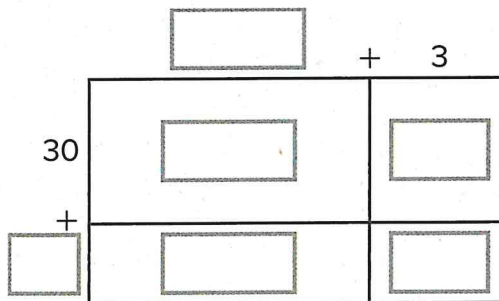
15. Which equation represents the best estimate for 367×29 ?

(Lesson 5-3)

- A. $300 \times 20 = 6,000$
- B. $300 \times 30 = 9,000$
- C. $400 \times 20 = 8,000$
- D. $400 \times 30 = 12,000$

16. Fill in the area model and use partial products to find 53×37 .

(Lesson 5-5)



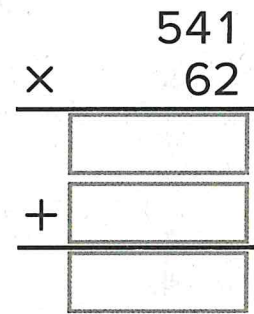
$53 \times 37 = \underline{\hspace{2cm}}$

17. The track team runs a combined average of 126 miles per day. How many miles might the team run in 5 weeks? Estimate the solution. Then solve. (Lesson 5-7)

estimation: miles

solution: miles

18. Complete the algorithm to find the product. (Lesson 5-7)



19. Write 10^6 as a product of 10s.

Then write the product. (Lesson 5-2)

$10^6 = \underline{\hspace{4cm}}$

$= \underline{\hspace{4cm}}$

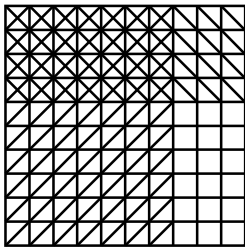
Unit 6

Unit Assessment, Form A

Name _____

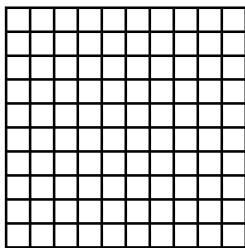
- Which of these are equivalent to 6.8×10^3 ? Choose all that apply.
 - $6.8 \times 10 \times 3$
 - $6.8 \times 10 \times 10 \times 10$
 - 680
 - 6,800
- Knowing that $8.4 \times 10^2 = 840$, what is 8.4×10^4 ?
 - 840
 - 8,400
 - 84,000
 - 840,000
- A company sells trail mix for \$3.65 per pound. About how much would it cost to buy a bag of trail mix weighing 5 pounds?
- According to her step-counter, Juanita walked 1.6×10^4 steps yesterday. How many steps did Juanita walk yesterday?
 - 16 steps
 - 160 steps
 - 1,600 steps
 - 16,000 steps
- Which sum is equivalent to 4.8×0.7 ?
 - $280 + 56$
 - $28 + 5.6$
 - $2.8 + 5.6$
 - $2.8 + 0.56$

6. Which equation is represented by the decimal grid?

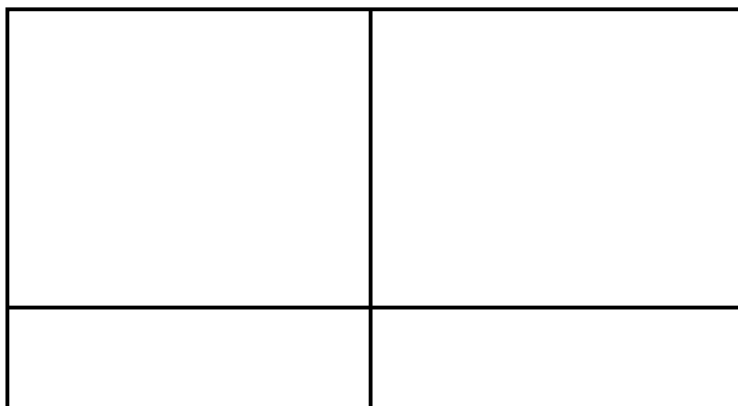


- A. $0.07 \times 0.04 = 0.28$
- B. $7 \times 0.4 = 2.8$
- C. $0.7 \times 0.4 = 2.8$
- D. $0.7 \times 0.4 = 0.28$

7. A sandwich shop uses 0.14 pound of tomato on each sandwich. How much tomato will the shop need to make 6 sandwiches? Use the decimal grid to help you solve.



8. A rectangular storage room is 2.4 meters wide and 13 meters long. What is the area of the storage room? Use the area model to solve.



Unit 6

Unit Assessment, Form A (continued)

Name _____

9. Keith knows that $6.3 \times 47 = 296.1$. Use place-value patterns to decide whether each equation is True or False.

	True	False
$6.3 \times 4.7 = 29.61$		
$63 \times 47 = 29,610$		
$63 \times 0.47 = 296.1$		
$63 \times 4.7 = 296.1$		

10. Zara knows that $23 \times 0.86 = 19.78$. What is 2.3×8.6 ?

- A. 1.978
- B. 19.78
- C. 197.8
- D. 1,978

11. A rectangular card measures 6.2 inches long by 4.8 inches wide. Which is the best estimate for the area of the card?

- A. about 11 square inches
- B. about 20 square inches
- C. about 30 square inches
- D. about 50 square inches

12. What is the product? Use place-value patterns to solve the equations.

$$32 \times 86 = 2,752$$

$$32 \times 8.6 = \underline{\hspace{2cm}}$$

$$0.32 \times 86 = \underline{\hspace{2cm}}$$

- 13.** Marielle makes \$9.75 per hour. About how much money does Marielle make when she works 7.6 hours? Explain which estimation strategy you used.
- 14.** Yusef walks 0.7 kilometer to the park. He walks to the park 48 times this year. How many kilometers does Yusef walk to the park this year? Explain the strategy you used to solve.
- 15.** Jordan lines up 36 erasers. Each eraser is 4.3 centimeters long. How many centimeters long is Jordan's line of erasers? Explain the strategy you used to solve.

Unit Review

Name _____

Vocabulary Review

Choose the correct word(s) to complete the sentence.

estimate

partial products

exponent

range

1. To find an approximate value of a calculation is to _____ . (Lesson 6-2)
2. When multiplying by a power of 10, the _____ tells us the number of places the digits shift to the left. (Lesson 6-1)
3. A(n) _____ gives two numbers between which acceptable values fall. (Lesson 6-2)
4. When using an area model to multiply, the values placed in rectangles are called _____. (Lesson 6-4)

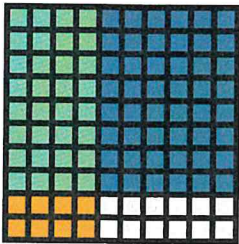
Review

5. Which is equivalent to 7.6×10^3 ?

(Lesson 6-1)

- A. 76
B. 760
C. 7,600
D. 76,000

6. Which equation is represented by the model? (Lesson 6-3)



- A. $0.04 \times 0.08 = 0.0032$
B. $0.4 \times 0.08 = 0.032$
C. $0.4 \times 0.8 = 0.32$
D. $4 \times 0.8 = 3.2$

7. Find the missing products.

(Lesson 6-5)

$$23 \times 89 = \underline{\hspace{2cm}}$$

$$23 \times 8.9 = 204.7$$

$$2.3 \times 8.9 = \underline{\hspace{2cm}}$$

8. Deshaun cuts 0.8 meter of tape for each part of his project. There are 7 parts to his project. How much tape does Deshaun use?

(Lesson 6-6)

9. Daniel is making 7 pizzas for himself and his friends. Each pizza will have 2.8 ounces of sauce. About how much sauce does Daniel need to make 7 pizzas? (Lesson 6-2)

Daniel needs between _____ ounces and _____ ounces of sauce.

10. Which expressions are equivalent to 3,400? Choose all that apply.

(Lesson 6-1)

- A. 0.34×10^2
B. 0.34×10^3
C. 3.4×10^2
D. 3.4×10^3
E. 34×10^2
F. 34×10^3

11. Leo pays \$4.60 for every movie he rents. He rents 12 movies. How much does he pay for movies? (Lesson 6-4)

12. A recipe calls for 1.8 liters of milk. If the recipe needs to be tripled, how many liters of milk are needed? (Lesson 6-6)

13. Kellen has a battery that weighs 14.7 grams. He also has a bigger battery that weighs 4.29 times that much. About how much does the bigger battery weigh?

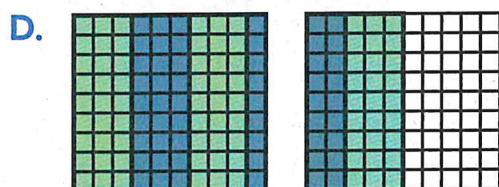
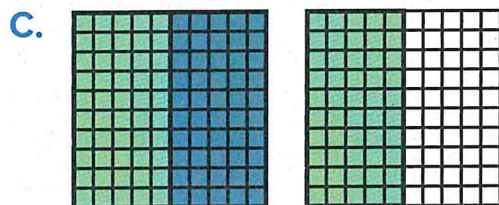
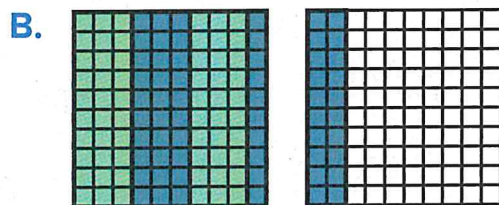
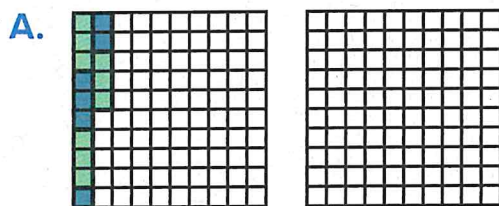
(Lesson 6-2)

The bigger battery is between _____ grams and _____ grams.

14. Find the product. (Lesson 6-4)

$$3.6 \times 4.7 = \underline{\hspace{2cm}}$$

15. David rides 0.3 miles each day to school. Which model shows how far he rides in 5 days? (Lesson 6-3)



16. Which is equivalent to 5.9×10^4 ?

(Lesson 6-1)

- A. 59
- B. 590
- C. 5,900
- D. 59,000

17. 5.4 is _____ of 54. So, 5.4×27

is _____ of the product 54×27 .

(Lesson 6-5)

18. Which expression has a value of 0.35? Choose all that apply.

(Lesson 6-5)

- A. 7×0.5
- B. 0.7×0.5
- C. 0.07×5
- D. 0.7×5

19. Use partial products to find the product of 4.7×2.8 . (Lesson 6-4)

$$4 \times 2 = \underline{\hspace{2cm}}$$

$$4 \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

$$0.7 \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

$$0.7 \times 0.8 = \underline{\hspace{2cm}}$$

$$\text{So, } 4.7 \times 2.8 = \underline{\hspace{2cm}}$$

Unit 7

Unit Assessment, Form A

Name _____

- Knowing that $36 \div 9 = 4$, which quotient is true? Choose all that apply.
 - $360 \div 9 = 4$
 - $360 \div 90 = 4$
 - $3,600 \div 90 = 4$
 - $3,600 \div 90 = 40$
 - $36,000 \div 90 = 40$
 - $36,000 \div 90 = 400$
- A company has 10,000 square feet on which to build 50 identical storage units. What is the area of each storage unit?
- For which quotient is 70 a reasonable estimate? Choose all that apply.
 - $194 \div 5$
 - $1,398 \div 69$
 - $5,612 \div 82$
 - $2,777 \div 41$
 - $4,209 \div 58$
 - $6,254 \div 73$
- Which equation can be used to help you solve $496 \div 16 = n$?
 - $n + 16 = 496$
 - $n \times 16 = 496$
 - $n \times 496 = 16$
 - $n \div 16 = 496$

5. A building has a flight of 16 stairs between each floor. Alice climbed all 240 stairs to reach the top floor. How many flights of stairs did Alice climb?

6. Which quotient is shown by the area model?

46	
$60 \times 46 = 2,760$	60
$10 \times 46 = 460$	10
$6 \times 46 = 276$	6
$2 \times 46 = 92$	2

- A. $2,760 \div 46 = 78$
- B. $3,588 \div 46 = 69$
- C. $3,588 \div 46 = 78$
- D. $3,588 \div 46 = 618$

7. The area of a rectangular cornfield is 3,132 square feet. The width of the cornfield is 54 feet. What is the length of the cornfield? Use an area model to solve.

Unit 7

Unit Assessment, Form A (continued)

Name _____

8. Which quotient is shown by the partial quotients strategy?

$$\begin{array}{r} 48 \overline{) 2,016} \\ \underline{1,920} \\ 96 \\ \underline{48} \\ 48 \\ \underline{48} \\ 0 \end{array} \begin{array}{l} 40 \\ \\ 1 \\ \\ 1 \end{array}$$

- A. $48 \div 2,016 = 42$
B. $2,016 \div 48 = 42$
C. $2,016 \div 48 = 51$
D. $2,016 \div 48 = 60$
9. The area of a picture and its rectangular frame is 3,344 square inches. The width of the frame is 44 inches. How long is the picture frame? Use the partial quotients strategy.
10. What is the remainder for the quotient $3,453 \div 63$?
- A. 0
B. 51
C. 54
D. 55

- 11.** At the factory, 3,174 markers were made. Each box holds 24 markers. How many boxes were filled with markers? How many markers were left over?
- 12.** A football team scored 387 points during the season. They played 11 games. About how many points did the team score each game? Explain how you found your answer.
- 13.** Patricia packages eggs into dozen containers. She is allowed to take home any eggs that are left over. Today, Patricia has 650 eggs to package. Will she be able to take any eggs home? If so, how many? Explain your answer.
- 14.** Phillip has a collection of 1,550 baseball cards. He stores them in plastic sheets that can hold 18 cards. How many plastic sheets will Phillip need to hold all of his baseball cards? Explain your answer.



Unit Review

Name _____

Vocabulary Review

Choose the correct word(s) to complete each sentence.

dividend

partial quotient

divisor

quotient

estimate

remainder

1. To find an approximate value of an operation is to _____ . (Lesson 7-2)
2. In a division problem, the _____ is divided by the _____ . (Lesson 7-1)
3. The _____ is the result of dividing one number by another. (Lesson 7-1)
4. You can break a dividend into parts to divide. Each separate quotient is called a(n) _____ . (Lesson 7-4)
5. A(n) _____ is an amount left over after one whole number is divided by another. (Lesson 7-6)

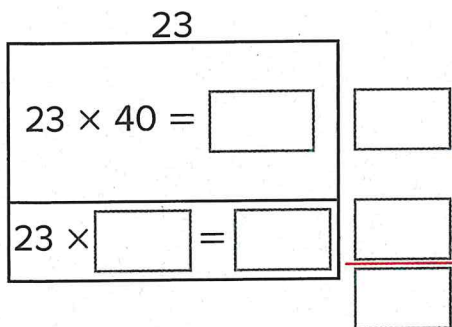
Review

6. Which is the quotient? (Lesson 7-1)
- $$24,000 \div 80$$
- A. 3
B. 30
C. 300
D. 3,000
7. Write a multiplication equation you could use to solve $480 \div 12$. What is the solution? (Lesson 7-3)
8. Which expressions will provide the best estimate for the quotient of $7,721 \div 29$? Choose all that apply. (Lesson 7-4)
- A. $7,000 \div 30$
B. $7,500 \div 30$
C. $8,000 \div 20$
D. $8,000 \div 30$
9. What is the quotient? Use partial quotients to solve.
 $435 \div 54$ (Lesson 7-6)
10. Complete the partial quotients strategy to solve. (Lesson 7-5)
- $$\begin{array}{r} 32 \overline{) 2,304} \\ \underline{-1,600} \\ 704 \\ \underline{-640} \\ 64 \\ \underline{-64} \\ 0 \end{array}$$
- $2,304 \div 32 = \underline{\hspace{2cm}}$
11. Trevor wrote 31,435 lines of programming code this month. He wrote about the same number of lines each day. About how many lines of code did he write each day? (Lesson 7-2)
- A. 100
B. 200
C. 1,000
D. 2,000
12. There are 18,000 envelopes in packs of 60. How many packs of envelopes are there? (Lesson 7-1)

13. Janette earns \$13 each hour walking dogs. She earned \$585 last month. For how many hours did she walk dogs last month? Use partial quotients to solve. (Lesson 7-7)



14. A rectangle has an area of 1,104 square meters. The width of the rectangle is 23 meters. What is the length? Complete the area model to solve. (Lesson 7-4)



15. Which is the best estimate of $3,988 \div 19$? (Lesson 7-2)
- A. 20
 - B. 200
 - C. 400
 - D. 2,000
16. Tickets for a ballet cost \$46 each. James has a budget of \$1800 to purchase ballet tickets. How many ballet tickets can James purchase? (Lesson 7-7)
17. A party supply store manager is packaging party hats for sale. There are 504 party hats. How many hats can the manager place in each package so that there are no hats left over? Choose all that apply. (Lesson 7-7)
- A. 12
 - B. 15
 - C. 20
 - D. 21
 - E. 24
 - F. 63