



مؤسسة الإمارات للتعليم المدرسي
EMIRATES SCHOOLS ESTABLISHMENT

مدرسة الطموح حلقة (3-2-1).

Al Tomooh School C2



Name: -----

Grade: -----

Teacher : Mohsina Al Braiki

Question	Name Lesson	Reference(s) in the Student Book	
		Page	Example/practice
1	Use formulas to determine volume	44	(10-8)
	Determine the volume of composite figure	49	(4-5)
		50	(6-9)
2	Compare Decimals	76	Work together
		77	(1-9)
	Read and write decimals	73	(1-12)
		74	(13 -15)
3	Strategies to Subtract Decimals	121	(1,2,5-8)
		129	(13)
4	Unit Review	167	(16)
	Use Area Models to Multiply Multi-Digit Factors	149	(1-8)
	Use Partial Products to Multiply Multi-Digit Factors	153	(1-6)
5	Represent Multiplication of Decimals	183	(1-3)
	Unit Review	201	(15)
	Explain Strategies to Multiply Decimals	197	(3-7)
	Unit Review	200	(8,12)
6	Understand Volume	35	(1-7)
7	Use Unit Cubes to Determine Volume	39	(1-7)
8	Use Formulas to Determine Volume	43	(1-6)
	Unit Review	56	(9)
		57	(11)
9	Extend Place Value to Decimals	69	(1-6)
	Unit Review	87	(13-15)
10	Use Place Value to Round Decimals	83	(1-10)
		84	(11-13)

Question	Name Lesson	Reference(s) in the Student Book	
		Page	Example/practice
11	Estimate sums and differences of decimals	96	(10-13)
	Unit Review	128	(6)
12	Represent Addition of Tenths and Hundredths	102	(11)
	Unit Review	128	(7)
13	Represent Subtraction of Decimals	113	(2-4)
	Unit Review	128	(10)
14	Understand Powers and Exponents	137	(1-4 , 13)
	Unit Review	166	(8)
15	Estimate Products of Multi-Digit Factors	145	(1-4)
	Unit Review	167	(15)
16	Relate Partial Products to an Algorithm	157	(1-4)
17	Patterns When Multiplying Decimals by Powers of 10	175	(1-4)
	Unit Review	200	(5,10)
18	Generalizations about Multiplying Decimals	193	(4-11)
	Unit Review	200	(7)
19	Division Patterns with Multi-Digit Numbers	210	(11-13)
	Unit Review	238	(12)
20	Relate Multiplication and Division of Multi-Digit Numbers	217	(5-8)
	Unit Review	238	(7)

Volume Formulas : **الارتفاع**

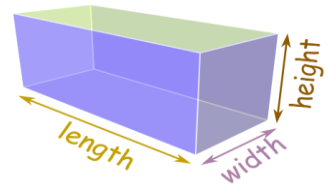
$$V = L \times w \times h$$

الطول

العرض

$$V = B \times h$$

القاعدة



8. A freezer, shaped like a rectangular prism, is 6 feet long, 2 feet wide, and 3 feet tall. What is the volume of the freezer?

9. An Olympic swimming pool is 2 meters deep. What is the volume of the swimming pool?



10. Do you agree or disagree with this statement? Justify your reasoning. When the edge lengths of a rectangular prism are double, the volume is also double?

1

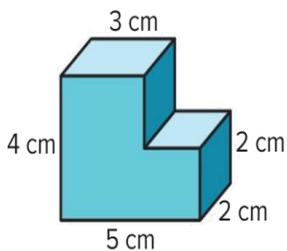
Determine the volume of composite figure

49

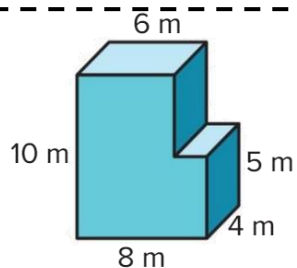
(4-5)

What is the volume of the figure?

4.



5.



1

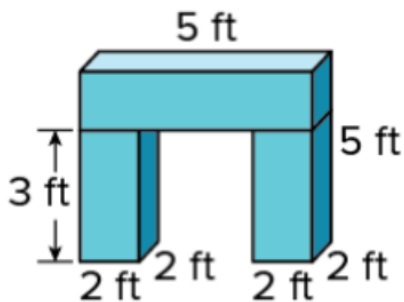
Determine the volume of composite figure

50

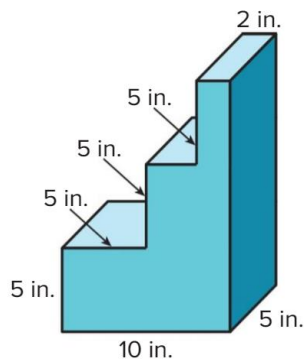
(6-9)

Draw line(s) to show how you decomposed the figure.
What is the volume of the figure?

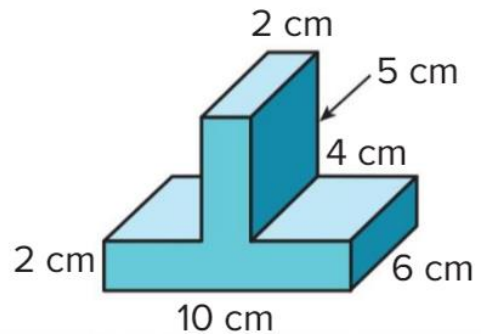
6.



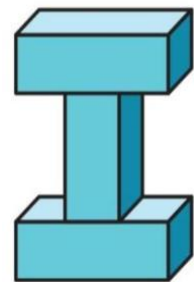
7.



8. STEM Connection An ocean engineer is designing an underwater robot. The robot will have two pieces like the one shown. What is the volume of the robot?



9. A sign company made this letter using rectangular prism. Each prism is 12 inches by 4 inches by 4 inches. What is the volume of the letter?



Compare the weights of these bags.

ones	tenths	hundredths	thousandths
3	2	8	1
3	9		



3.281 kg

3.9 kg

3.281 ○ 3.9

Write $>$, $<$, or $=$ in each ○ to make a true comparison. You can use a place-value chart to help.

1. 7.790 ○ 8.7

3. 6.55 ○ 5.66

5. 3.41 ○ 3.41

2. 1.021 ○ 1.095

4. 9.9 ○ 0.99

6. 2.563 ○ 2.573

7. Do the pencils or the highlighters cost more?



8. Write a comparison statement for the cost of the pens and pencils.



9. Which school supply is the most expensive? Which school supply is the least expensive? Explain how you know.

What is the word form of the decimal?

1. 8.2

.....

2. 8.02

.....

3. 0.82

.....

4. 0.082

.....

What is the standard form of the decimal?

5. $0.9 + 0.03 + 0.007$

.....

6. $2.0 + 0.7 + 0.08 + 0.006$

.....

7. $5 + 0.01 + 0.009$

.....

8. $7 + \frac{4}{10} + \frac{5}{1000}$

.....

What is the decimal in standard form ?

What is the decimal in expanded form ?

9. ninety-three and six thousandths.

.....

11. two hundred twelve and fifteen thousandths.

.....

10. three and eight hundred forty-six thousandths

.....

12. Seven hundred fifty-one thousandths.

.....

13. The Andromeda galaxy is 2.534 million light years from earth. How can you write this decimal number in expanded form and word form?

14. Kole wrote the decimal 34.821 in word form as thirty-four eight hundred twenty-one thousandths. Is he correct? Explain why.

2

Read and write decimals

74

(13-15)

15. Write the word forms of 321,578 and 321.578. What is the same? Explain why those similarities exist.

3

Strategies to Subtract Decimals

121

(1,2,5-8)

Decompose by place value to find difference.

1. $8.57 - 2.4$

$$8.57 - 2 = \boxed{}$$

$$\boxed{} - 0.4 =$$

$$8.57 - 2.4 = \boxed{}$$

2. $7.73 - 5.1$

$$7.73 - 5 = \boxed{}$$

$$\boxed{} - 0.1 =$$

$$7.73 - 5.1 = \boxed{}$$

What is the difference? Show your work.

5. $36.33 - 32.29 =$

6. $48.56 - 18.21 =$

7. $17.10 - 6.02 =$

8. $25.50 - 11.49 =$

3

Strategies to Subtract Decimals

129

(13)

13. Decompose by place value to subtract. Show your work.

5.70 - 2.08 =

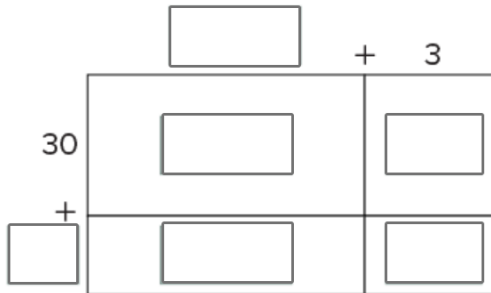
4

Unit Review

167

(16)

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



53 x 37 =

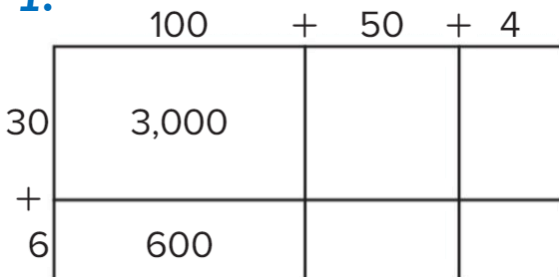
4

Use Area Models to Multiply Multi-Digit Factors

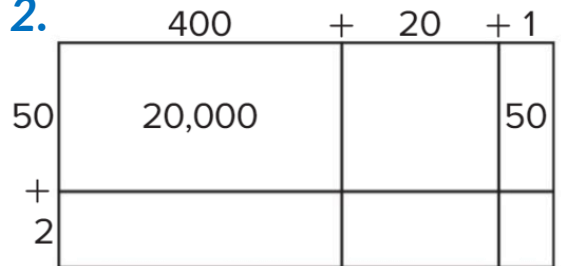
149

(1-8)

1.



2.



4

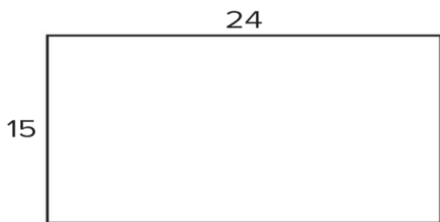
Use Area Models to Multiply Multi-Digit Factors

149

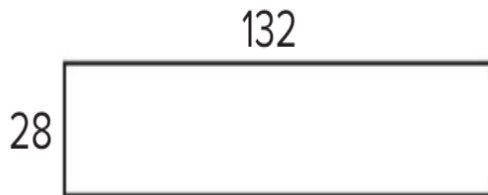
(1-8)

What is the product? Use area models to solve.

3. $15 \times 24 =$



4. $28 \times 132 =$

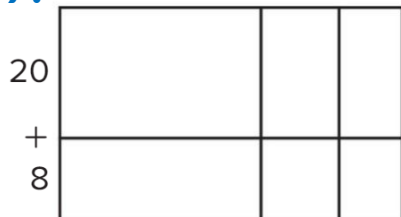


5. $33 \times 78 =$

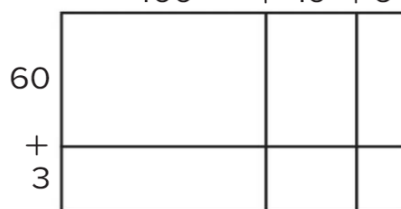
6. $72 \times 225 =$

Write the multiplication equation based on the area model. Then solve to find the product.

7. $200 + 10 + 8$



8. $400 + 10 + 6$



Find the unknown partial products. Then find the product.

1.

$$\begin{array}{r}
 \times \quad 325 \\
 \quad \quad 73 \\
 \hline
 21,000 \\
 1,400 \\
 350 \\
 \square \\
 \square \\
 + \square \\
 \hline
 \square
 \end{array}$$

2.

$$\begin{array}{r}
 \times \quad 104 \\
 \quad \quad 28 \\
 \hline
 32 \\
 800 \\
 \square \\
 + \square \\
 \hline
 \square
 \end{array}$$

What is the product? Use partial product to solve.

3.

$$\begin{array}{r}
 17 \\
 \times 86 \\
 \hline
 \end{array}$$

4.

$$\begin{array}{r}
 24 \\
 \times 129 \\
 \hline
 \end{array}$$

5.

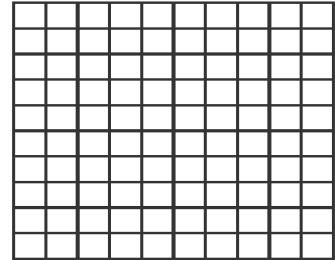
$$\begin{array}{r}
 36 \\
 \times 93 \\
 \hline
 \end{array}$$

6.

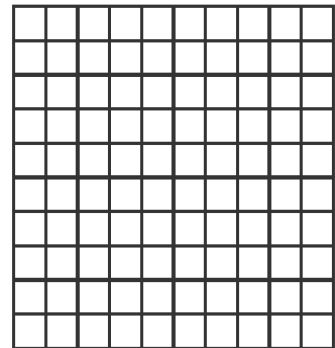
$$\begin{array}{r}
 222 \\
 \times \quad 58 \\
 \hline
 \end{array}$$

Write an equation and use a decimal grid to help you solve.

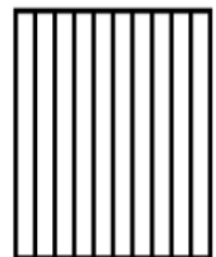
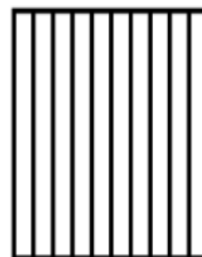
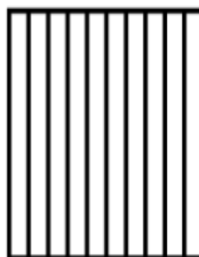
1. Laura pours 0.08 liters of milk into her tea each day. How much milk does Laura use in her tea in one week?



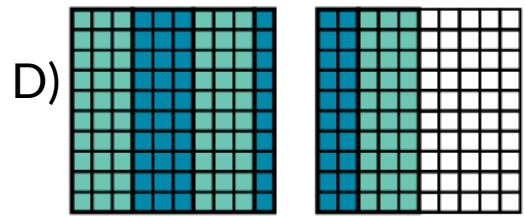
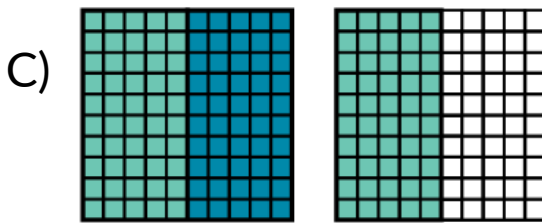
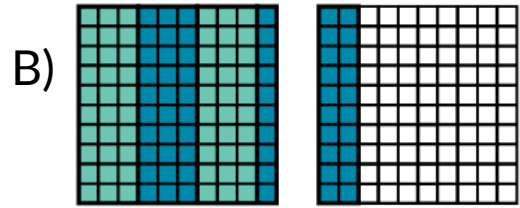
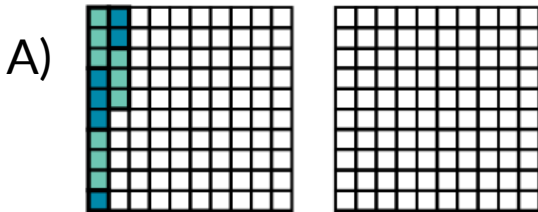
2. Jason buys 0.9 pounds of cabbage. The grocery store charges \$0.60 per pound. How much will Jason pay for the cabbage?



3. Tonya cuts 0.4 meters of ribbon for each gift she wraps. She wraps 6 gifts. How much ribbon does Tonya use?



15. David rides 0.3 miles each day to school. Which model shows how far he rides in 5 days?

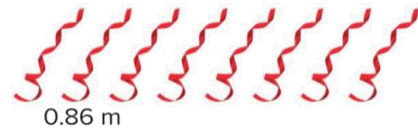


What is the product?

3. Each bottle holds the same amount. How much water can these bottles hold?



5. Rebecca cut these ribbons to the same length. How much ribbon did Rebecca use in all?



What is the product?

5. Experts recommend that people have 4.7 grams of potassium per day. Last week Marcus averaged 0.9 times as much potassium as the recommendation. How much potassium did Marcus average each day last week ?

6. A pitcher has a capacity of 3.9 liters. A cooler has a capacity 9.2 times greater. What is the capacity of the cooler?

7. Kara has a bag of apples. Each apple weighs 0.4 pound on average. There are 17 apples in her bag. What is the total weight of her apples ?

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

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?

Daniel needs between Ounces and Ounces of sauce.

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

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?

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

1. Which of these figures have volume? Justify your reasoning.



For the situation, would you measure the **length**, **area**, or **volume**? Explain.

2. The amount of soil needed to fill a flowerpot.

3. The distance of a bike ride.

4. The amount of wall space covered by a poster.

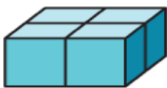
5. The amount of concrete needed to fill a patio.

6. The space inside a moving truck.

7. The distance around a building.

Determine the volume of the figure.

1.

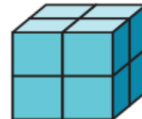


Number of layers:

Number in each layer:

Volume: cubic units

2.



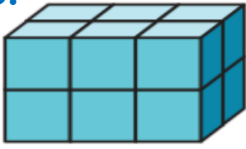
Number of layers:

Number in each layer:

Volume: cubic units

Determine the volume of the figure.

3.

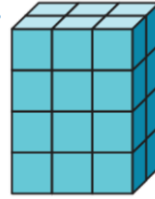


Number of layers:

Number in each layer:

Volume: cubic units

4.

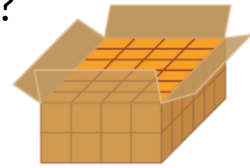


Number of layers:

Number in each layer:

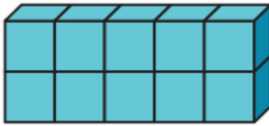
Volume: cubic units

5. How can you determine the volume of the box?



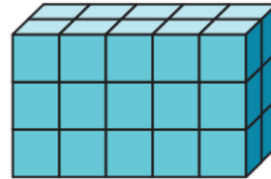
What is the volume of the figure?

6.



cubic units

7.



cubic units

8

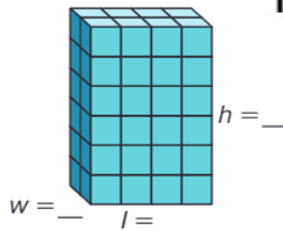
Use Formulas to Determine Volume

43

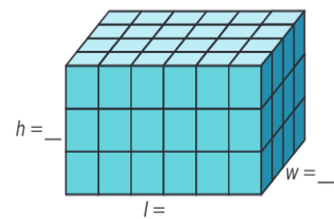
(1-6)

Label the dimensions and then determine the volume of the figure.

1.



2.



Volume Formulas : الارتفاع

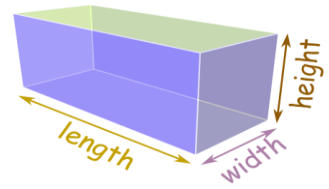
$$V = L \times w \times h$$

الطول

العرض

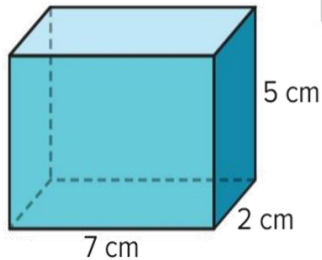
$$V = B \times h$$

القاعدة

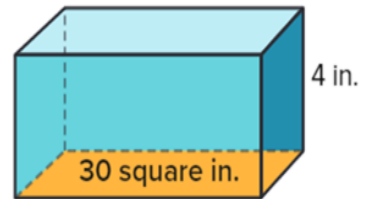


What is the volume of the figure? Tell which volume formula you used and why.

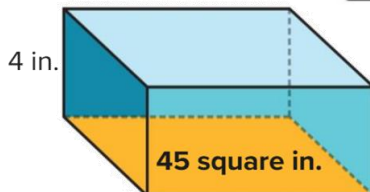
3.



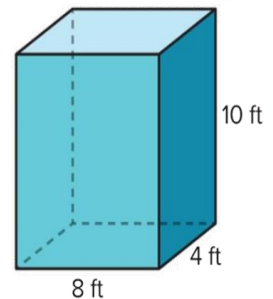
4.



5.



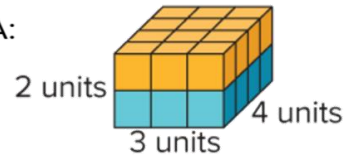
6.



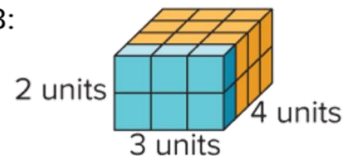
9. Which equation represents the different ways to find the volume of these figures?

- 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) $3 \times (4 + 2) = (3 \times 4) + (3 \times 2)$

Prism A:



Prism B:

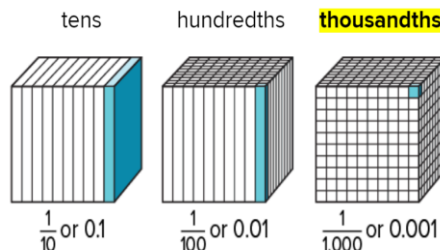


11. The volume of a rectangle prism is 48 cubic inches. Which could be the dimensions of the prism?

- 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

ones	tenths	hundredths	thousandths
1	1	1	1

Decimal point



1. Which of the following statement is *true*?

- A) 0.009 is ten times 0.09
- B) 0.09 is ten times 0.009
- C) 0.09 is $\frac{1}{10}$ of 0.009
- D) 9 is $\frac{1}{10}$ of 0.9

2. Which of the following statement is *true*?

- A) 0.003 is $\frac{1}{10}$ of 0.03
- B) 0.03 is $\frac{1}{10}$ of 0.003
- C) 0.3 is ten times 0.003
- D) 3 is ten times 0.03

Marcella has \$5.00, Niko has \$0.50, and Benjamin has \$0.05.

3. Benjamin has the money Niko has.

4. Marcella has the money Niko has

Complete the sentence.

5. \$9.00 is \$0.90.

6. \$0.90 is \$9.00.

13. Which of the following statement is *true*?

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

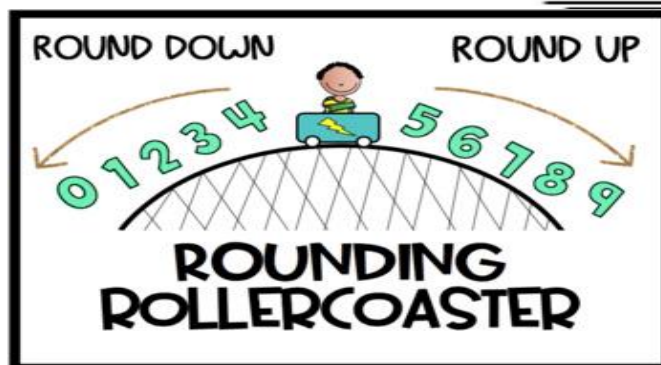
D) 2 is $\frac{1}{10}$ of 0.2

15. Complete the sentence

0.05 is 0.5

REMEMBER

Only when have (5-6-7-8-9) you **add 1** to place ask to round tor.



What is each decimal rounded to the nearest whole number? You can use number line or place value.

1. 78.39

2. 4.07

3. 12.7

4. 15.55

10

Use Place Value to Round Decimals

83

(1-10)

84

(11-13)

What is each decimal rounded to the nearest tenth? You can use number line or place value.

1. 42.89

2. 3.65

3. 16.12

4. 98.17

9. Danica rounded a number to the nearest tenth to get 14.7. What number could she have rounded to get this answer?

10. Which statements are true?

- A. The decimal 43.678 rounded to the nearest tenth is 43.6.
- B. The decimal 43.678 rounded to the nearest tenth is 43.7.
- C. The decimal 43.678 rounded to the nearest hundredth is 43.68.
- D. The decimal 43.678 rounded to the nearest hundredth is 43.67.

11. The masses of five dogs are shown. Round each mass to the nearest whole number.



22.8 kg 25.4 kg 27.1 kg 25.8 kg 26.7 kg

10

Use Place Value to Round Decimals

83

(1-10)

84

(11-13)

12. The mass of the sun takes up about 99.86% of the mass of our solar system. What is 99.86 rounded to the nearest tenth?

13. Which of the following numbers are closer to 100? Which are closer to 99?

99.03 ; 99.87 ; 99.49 ; 99.49 ; 99.27 ; 99.72

11

Estimate sums and differences of decimals

96

(10-13)

10. The path around a lake is part stone and part dirt. About how long is the path around the lake?



10. Marcus's family is driving 354.3 miles to his grandmother's house. They have driven 209.7 miles. About how many more miles does

11

Estimate sums and differences of decimals

96

(10-13)

12. The winner of a skateboarding competition scored 87.83 points. The second-place skateboarding scored 81.50 points. About how many more points did the winner score than the second-place skateboarder?

13. Aaron has 1.3 meters of red yarn and 1.65 meters of purple yarn. Aaron says he has 2.95 meters of yarn. Is his answer reasonable?

11

Unit Review

128

(6)

6. Wesley drove 81.23 miles before lunch and 49.49 miles after lunch. Round each number to the nearest whole number to estimate the total number of miles Wesley drove?

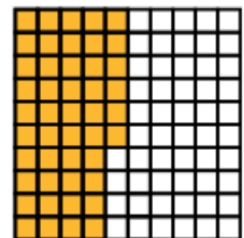
12

Represent Addition of Tenths and Hundredths

102

(11)

11. Write the addition equation represented by the decimal grids.



12

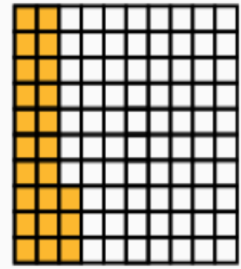
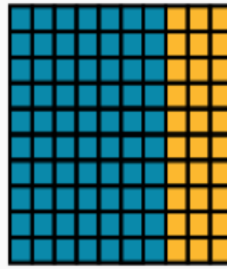
Unit Review

128

(7)

7. Look at the decimal grids complete the addition equation that is represented by the decimal grids.

$$0.7 + \boxed{} = \boxed{}$$



13

 Represent Subtraction of Decimals
 Unit Review

113

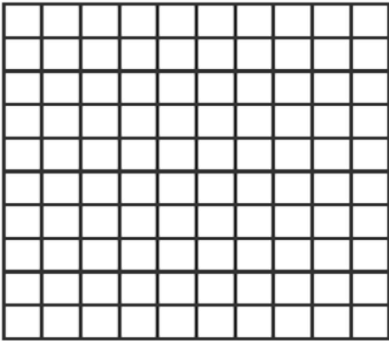
(2-4)

128

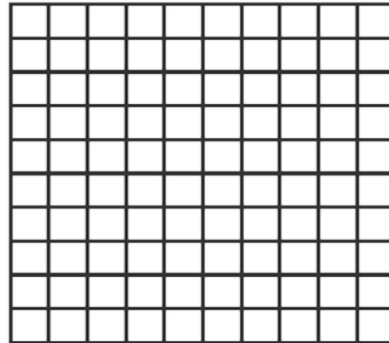
(10)

What is the difference? Use the decimal grids to solve

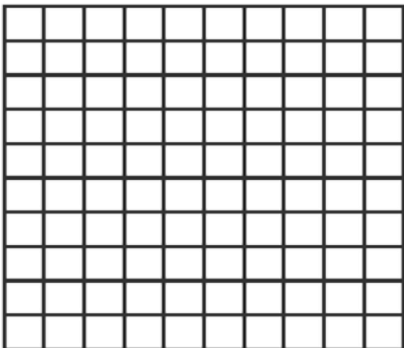
$$2) 0.09 - 0.02 = \boxed{}$$



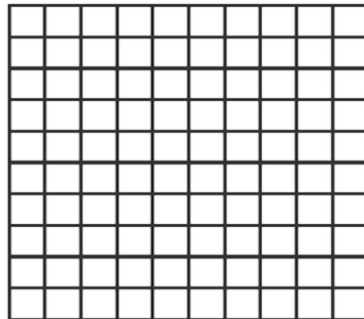
$$3) 0.25 - 0.11 = \boxed{}$$



$$4) 0.54 - 0.38 = \boxed{}$$



$$10) 0.31 - 0.07 = d$$



What is the value of d?

$$d = \boxed{}$$

Write the exponential form as a multiplication expression.

1. $10^4 =$

2. $10^2 =$

3. $10^3 =$

4. $10^6 =$

8. Which expression or value is equivalent to 10^4 ?

A) 1000

B) 10×4

C) $10 \times 10 \times 10 \times 10$

D) $10 + 10 + 10 + 10$

1. $643 \times 18 =$

2. $325 \times 62 =$

3. $438 \times 27 =$

2. $572 \times 49 =$

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

A) $300 \times 20 = 6,000$

B) $300 \times 30 = 9,000$

C) $400 \times 20 = 8,000$

D) $400 \times 30 = 12,000$

What is the **product**?

1.

$$\begin{array}{r} 327 \\ \times 6 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 543 \\ \times 8 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 1,931 \\ \times 5 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 3462 \\ \times 4 \\ \hline \end{array}$$

Write the multiplication expression using factors of 10. Then find the value.

$$1) 3.6 \times 10^2 =$$

$$2) 7.2 \times 10^3 =$$

$$3) 4.8 \times 10^4 =$$

$$4) 1.9 \times 10^2 =$$

5. Which is equivalent to 7.6×10^3 ?

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

10. Which expressions are equivalent to 73,400 ?

- 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

What is the product? Use patterns to solve.

4. $45 \times 17 = 765$

$45 \times 1.7 =$

$45 \times 0.17 =$

5. $32 \times 14 =$

$32 \times 1.4 = 44.8$

$3.2 \times 1.4 =$

6. $16 \times 89 = 1,424$

$16 \times 8.9 =$

$16 \times 0.89 =$

7. $61 \times 22 =$

$61 \times 2.2 = 134.2$

$61 \times 0.22 =$

8. $96 \times 55 =$

$96 \times 5.5 =$

$9.6 \times 5.5 = 52.8$

9. $19 \times 42 =$

$1.9 \times 42 = 79.8$

$1.9 \times 4.2 =$

10. $67 \times 34 =$

$67 \times 3.4 =$

$6.7 \times 3.4 =$

11. $82 \times 67 =$

$82 \times 6.7 =$

$8.2 \times 6.7 =$

7. Find the missing products.

$67 \times 34 =$

$67 \times 3.4 =$

$6.7 \times 3.4 =$

11. There are 24,000 quarters in rolls of 40 quarters each. How many rolls of quarters are there?

12. Drew wants to solve $12,000 \div 20$ by starting with this basic fact: $12 \div 2 = 6$.

Drew then uses patterns to find a quotient of 60. Is Drew correct? If not, what mistake did he make ?

13. A building has 20 floors. The building has a total floor area of 40,000 square feet. What is the area of each floor?

9. There are 18,000 envelopes in packs of 60 . How many packs of envelopes are there?

Solve for the unknown.

$$5. 396 \div 12 = n$$
$$n \times 12 = 396$$

$$6. 448 \div 16 = s$$
$$s \times 16 = 448$$

$$7. 312 \div 52 = m$$
$$m \times 52 = 312$$

$$8. 533 \div 41 = a$$
$$a \times 41 = 533$$

7. Write a multiplication equation you could use to solve $480 \div 12$. What is the solution?

