

# Alhuiteen schoo EOT1 coverage GRADE 5



Teacher :Alaa Elatawy



In HILLING



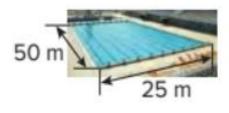
Academic Year	2023/2024
العام الدراسي	
Term	1
القصبل	_
Subject	Mathematics/Reveal
المادة	الرياضيات/ريفيل
Grade	-
الميف	5
Stream	General
المسار	العام
Number of MCQ عدد الأستلة الموضوعية	15
Marks of MCQ درجة الأسفلة الموضوعية	4
Number of FRQ عدد الأسئلة المقالية	5
Marks per FRQ الدرجات للأستلة المقالية	(7-10)
Type of All Questions	الأسئلة الموضوعية /MCQ
نوع كافة الأسئلة	الأسدلة المقالية /FRQ
Maximum Overall Grade	100
الدرجة القصوى الممكثة	
مدة الإمتحان - Exam Duration	150 minutes
لريقة التطبيق- Node of Implementation	Paper-Based
Calculator	Not Allowed
الآلة الحاسبة	غير مسموحة



مديرة المدرسة فوقيه مصطفى مساعدة المديره شمسه المزروعي

Ра	art1	Type of Questions	/FRQ مقالي	الدرجات لكل سؤال	<b>7-10</b> درجات
1		ne volume of rectangular sing formulas.	(8-10)	Pag	e :44

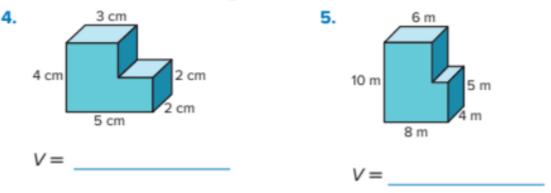
- A freezer, shaped like a rectangular prism, is 6 feet long,
   2 feet wide, and 3 feet tall. What is the volume of the freezer?
- 9. An Olympic swimming pool is 2 meters deep. What is the volume of the swimming pool?



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

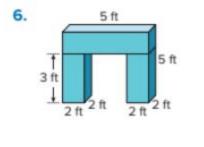
1	b) Find the volume of composite	(4-5)	Page :49
	figures.		

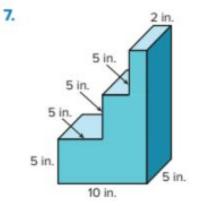
Draw line(s) to show how you decomposed the figure. What is the volume of the figure?



1	b) Find the volume of composite	(6-9)	Page :50
	figures.		

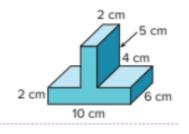
Draw line(s) to show how you decomposed the figure. What is the volume of the figure?



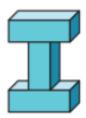




8. STEM Connection An ocean engineer is designing an underwater robot. The robot will have two pieces like the one shown. What is the volume of the robot?



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



Compare the weights of these bags.

ones	tenths	hundredths	thousandth
3	2	8	1
3	9		

3.281 3.9



2	a) Compare two decimals to the	(1-9)	Page :77
	thousandths place using place value.		

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

1.	7.790 8.7	2.	1.021 1.095
3.	6.55    5.66	4.	9.9 🔿 0.99
5.	3.41 3.41	6.	2.563 2.573

For exercises 7–9, use the cost of each school supply.

<b>\$1.15</b>	\$1.47	\$1.90
Pens	Pencils	Highlighters

- 7. Do the pencils or the highlighters cost more?
- Write a comparison statement for the cost of the pens and the pencils.
- Which school supply is the most expensive? Which school supply is the least expensive? Explain how you know.

2	(b+c) Read and write decimals to	(1-12)	Page :73
	thousandths using standard		
	formexpanded form, and word form.		

#### 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?

<b>5.</b> 0.9 + 0.03 + 0.007 <b>6.</b> 20 + 0	0.7 + 0.08 + 0.006
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**7.** 5 + 0.01 + 0.009 **8.**  $7 + \frac{4}{10} + \frac{5}{1,000}$ 

#### What is each decimal in standard form? What is each decimal in expanded form?

- ninety-three and six thousandths
   three and eight hundred forty-six thousandths
- two hundred twelve and fifteen thousandths
- seven hundred fifty-one thousandths

MISTAXES are proof that you are TRYING

2	(b+c) Read and write decimals to thousandths using standard	(13-15)	Page :74
	formexpanded form, and word form.		
		•	

13. STEM Connection The Andromeda galaxy is 2.537 million light years from Earth. How can you write this decimal number in expanded form and in word form?



- Kole wrote the decimal 34.821 in word form as thirty-four eight hundred twenty-one thousandths. Is he correct? Explain why or why not.
- Extend Your Thinking Write the word forms of 321,578 and 321.578. What is the same? Explain why those similarities exist.

3	Use strategies to subtract decimals & Explain the strategy used to subtract	(1,2,5-8)	Page :121
	decimals.		

Decompose by place value to find the difference.

 1. 8.57 - 2.4 2. 7.73 - 5.1 

  $8.57 - 2 = \_$   $7.73 - 5 = \_$ 
 $-0.4 = \_$   $-0.1 = \_$ 
 $8.57 - 2.4 = \_$   $7.73 - 5.1 = \_$ 

3	Use strategies to subtract decimals &	(1,2,5-8)	Page :121
	Explain the strategy used to subtract		
	decimals.		

#### 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 = \_\_\_\_

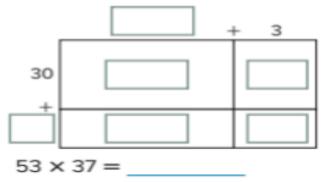
3	Use strategies to subtract decimals & Explain the strategy used to subtract decimals.	13	Page :129

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

5.70 - 2.08 =

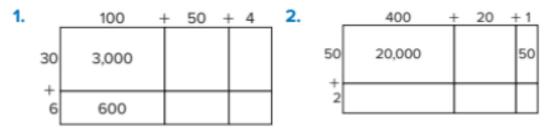
4	Fluently multiply multi-digit whole numbers using the standard algorithm.	16	Page :167
	- Use an area model and partial products to multiply multi-digit whole numbers		
	-Use partial products to help multiply multi-digit factors.		

 Fill in the area model and use partial products to find 53 × 37. (Lesson 5-5)

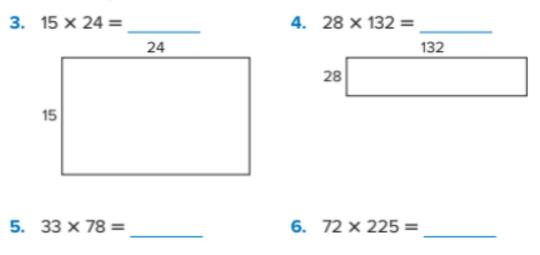


4	Fluently multiply multi-digit whole numbers using the standard algorithm.	(1-8)	Page :149
	<ul> <li>Use an area model and partial products to multiply multi-digit whole numbers</li> </ul>		
	-Use partial products to help multiply multi-digit factors.		

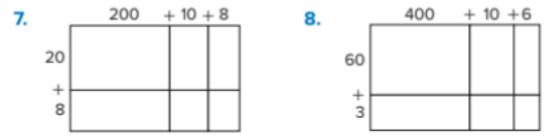
#### Complete the area model. Then solve to find the product.



#### What is the product? Use area models to solve.



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



4	Fluently multiply multi-digit whole numbers using the standard algorithm.	(1-6)	Page :153
	<ul> <li>Use an area model and partial products to multiply multi-digit whole numbers</li> </ul>		
	-Use partial products to help multiply multi-digit factors.		

Find the unknown partial products. Then find the product.



What is the product? Use partial products to solve.

З.	17	4.	24
	× 86	_	x 129

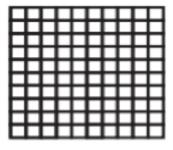
5.	36	6.	222
_	× 93	_	× 58



5	a) Use decimal grids to help represent and solve multiplication equations involving decimals	(1-3)	Page :183
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Write an equation and use a decimal grid to help you solve.

- Laura pours 0.08 liter of milk into her tea each day. How much milk does Laura use in her tea in one week?
- Jason buys 0.9 pound of cabbage. The grocery store charges \$0.60 per pound. How much will Jason pay for the cabbage?



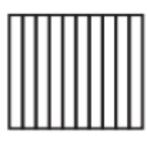
	П	П			
	П				
	₩				
	Ħ				
H	₩		=	H	
	Ħ		==	=	

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



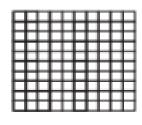
5





- a) Use decimal grids to help represent15Page :201and solve multiplication equationsinvolving decimals..
- David rides 0.3 miles each day to school. Which model shows how far he rides in 5 days? (Lesson 6-3)

A. B.



H	H	$\vdash$	HH
HH	-		

C.	
D.	

5	b) Understand a variety of strategies to	(3-7)	Page :197
	solve multiplication equations		
	involving decimals.		

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



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

- 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?
- 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?

#### Solve. Explain the strategy used to solve.

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?

	of her apples?		
5	b) Understand a variety of strategies to solve multiplication equations involving decimals.	(8,12)	Page :200
fo ar m	eshaun cuts 0.8 meter of tape r each part of his project. The e 7 parts to his project. How uch tape does Deshaun use?	1	YOU CAN IF YOU THINK

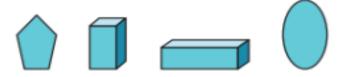
b) Understand a variety of strategies to solve multiplication equations involving decimals.	(8,12)	Page :200
involving decimals.		

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)

Pa	art 2	Type of Questions	موضوعی/MCQ	الدرجات لكل سؤال	4 درجات
6	Describe solid figu	volume as an attribute of res.	(1-7)	F	age :35

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

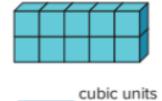


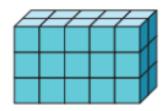
For the situation, would you measure the length, area, or volume? Explain.

- the amount of soil needed to
   the distance of a bike ride fill a flower pot

- the amount of wall space covered by a poster
- the amount of concrete needed to fill a patio

7 Determine volume by counting a cubes that fill a solid with no gap overlaps & Determine volume by multiplying the number of unit o one layer by the number of layer fill a solid with no gaps or overla	os or y cubes in rs that	Page :39
Determine the volume of the figure.   1. 2.   Number of layers:   Number in each layer:   Volume: cubic units	Number of layers: Number in each layer: Volume: cubic unit	
3.       Image: Arrow of the second sec	Number of layers: Number in each layer: Volume: cubic unit	
5. How can you determine the volume of the box?		
What is the volume of the figure?		

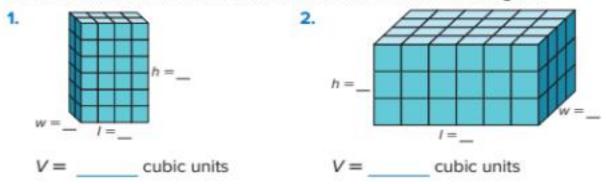




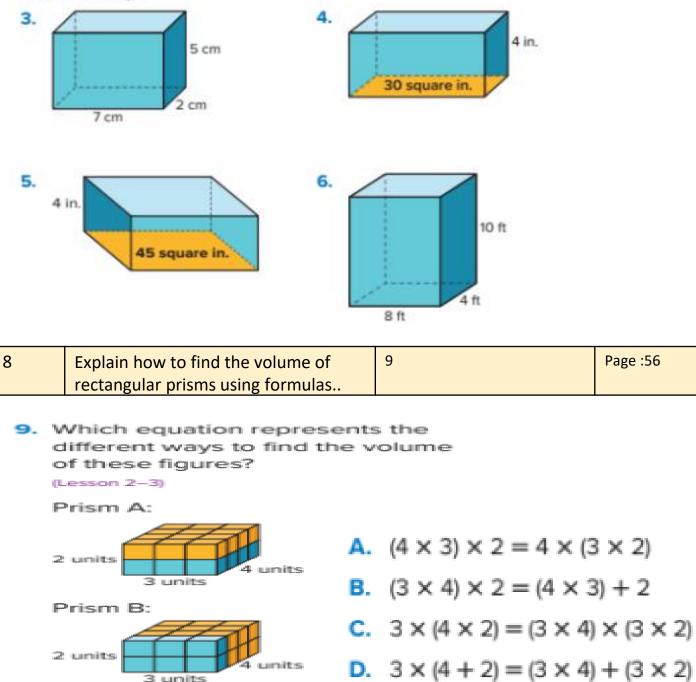
cubic units

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

8



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



8	Explain how to find the volume of rectangular prisms using formulas	11	Page :57
	The volume of a recta is 48 cubic inches. Wh the dimensions of the Select all that apply. (L	prism?	
	A. length = 24 inche width = 1 inch height = 2 inches		
	B. length = 6 inches width = 6 inches height = 4 inches		
	c. length = 16 inche width = 16 inches height = 16 inche	5 C	
	D. length = 12 inche width = 2 inches height = 2 inches		
9	Extend the place value relationship to decimal numbers & Explain the relationship of place values in decimal numbers.	(1-6)	Page :69
	<ul> <li>Which of the following statements is <i>true</i>?</li> <li>A. 0.009 is ten times 0.09</li> <li>B. 0.09 is ten times 0.009</li> <li>C. 0.09 is <sup>1</sup>/<sub>10</sub> of 0.009</li> <li>D. 9 is <sup>1</sup>/<sub>10</sub> of 0.9</li> </ul>	<ul> <li>Which of the following statements is <i>true</i>?</li> <li>A. 0.003 is <sup>1</sup>/<sub>10</sub> of 0.00</li> <li>B. 0.03 is <sup>1</sup>/<sub>10</sub> of 0.00</li> <li>C. 0.3 is ten times 0.00</li> <li>D. 3 is ten times 0.00</li> </ul>	3 3 .003
	cella has \$5.00, Niko has \$0.50, a this information to complete eac	이 같은 것은 것은 것은 것을 알았다. 그는 것은 사람이 없는 것이 있는 것이 없다.	5.
з.	Benjamin has the money	Niko has.	
4.	Marcella has the mone	y Niko has.	
Con	nplete each sentence.		
	\$9.00 is \$0.90.		

6. \$0.90 is \_\_\_\_\_\$9.00.

9	Extend the place value relationship to decimal numbers & Explain the relationship of place values in decimal numbers.	13-15)	Page :87
13.	Which of the following is true? (Lesson 3-2)	statements	
	A. 0.002 is 10 times 0		
	B. 0.02 is <sup>1</sup> / <sub>10</sub> of 0.002		
	C. 0.02 is 10 times 0.0	002	
	<b>D.</b> $2 \text{ is } \frac{1}{10} \text{ of } 0.2$		
14.	Complete the sentence	e. (Lesson 3-2)	
	7 is0.7.		
15.	Complete the sentence	8. (Lesson 3-2)	
	0.05 is0.9	5.	

10	Use rounding strategies to round	(1-10)	Page :83
	decimals.		

ALL

of your PROBLEMS have

SOLUTIONS

KOOLEO,

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

- 2. 4.07 1. 78.39
- 3. 12.7 4. 15.55

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

- 5. 42.89 6. 3.65
- 7. 16.12 8, 98.17

	10	Use rounding strategies to round decimals.	(1-10)	Page :83
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9. Danica rounded a number to the nearest tenth to get 14.7. What number could she have rounded to get this answer?

## 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.

10	Use rounding strategies to round	(11-13)	Page :84
	decimals.		

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



 STEM Connection 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?



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

99.03 99.87 99.49 99.27 99.72

11	Estimate sums and differences of	(10-13)
	decimals.	

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



- 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 Marcus's family have left to drive?
- 12. The winner of a skateboarding competition scored 87.83 points. The second-place skateboarder scored 81.50 points. About how many more points did the winner score than the second-place skateboarder?
- 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? Explain.

11	Estimate sums and differences of decimals.	6	Page :128

 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)

12	Represent addition of decimals using decimal grids & Represent addition of tenths and hundredths	11	Page :102
	rite the addition equation represented te decimal grids.	by	
12	Represent addition of decimals using decimal grids & Represent addition of tenths and hundredths	7	Page :128
			•

Look at the decimal grids.

	11		
		-	-+-
	tt		
++	++	+ +	-+-
	+ +		

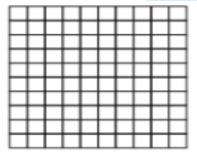
Complete the addition equation that is represented by the decimal grids. (Lesson 4-2)

13	Represent subtraction of decimals less	(2-4)	Page :113
	than 1 containing hundredths.		

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

- **1.** 0.7 0.1 = \_\_\_\_\_
- 3. 0.54 0.38 =

0.09 - 0.02 =

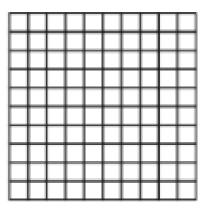


0.25 - 0.11 = \_\_\_\_\_

13	Represent subtraction of decimals less	10	Page :128		
	than 1 containing hundredths.				
10 11					

Use the decimal grid to solve

0.31-0.07 = d. (Lesson 4-5)



What is the value of d?

d =

14	Write a power of 10 as a multiplication	(1-4,13)	Page :137
	expression with factors of 10.		-

# Write the exponential form as a multiplication expression.

1.	104	2.	10²
3.	10 <sup>3</sup>	4.	10 <sup>6</sup>

 Rachel finds the value of 10<sup>5</sup> as shown. Do you agree with her solution? Tell why.

 $10^5 = 10 \times 5 = 50$ 

14	Write a power of 10 as a m expression with factors of 2		8	Page :166
	/hich expression or quivalent to 104? (Le			
А	. 1,000	<b>C.</b> 10 ×	$10 \times 10 \times 10$	
в	10 × 4	D. 10 +	10 + 10 + 10	

15 Estimate products of multi-digit factors (1-4) to determine if calculations are reasonable.	Page :145
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## Estimate the product.

643 × 18

325 × 62

438 × 27
 572 × 49

	15	Estimate products of multi-digit factors to determine if calculations are reasonable.	15	Page :167
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 Which equation represents the best estimate for 367 × 29?

(Lesson 5-3)

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

16	Multiply using an algorithm	(1-4)	Page :157
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# What is the product?

1.	327	2.	543
	<u>× 6</u>	_	X 8

3.	1,931	4.	3,4	62
	× 5		×	4

17 Use patterns to multiply a decimal by a power of 10	a (1-4)	Page :175
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Write the multiplication expression using factors of 10. Then, find the value.

 7.2 × 10<sup>3</sup> 3.6 × 10<sup>2</sup> 4.8 × 10<sup>4</sup> 4. 1.9 × 10<sup>2</sup>

17	Use patterns to multiply a decimal by a power of 10	(5,10)	Page :200
5. W	/hich is equivalent to 7.6 $\times$ 10 <sup>3</sup> ?		
(L	esson 6-1)		
Α	. 76		
В	. 760		
С	7,600		
D	. 76,000		
	Which expressions are equivale to 3,400? Choose all that apply.		
1	Lesson 6-1)		
	A. $0.34 \times 10^2$		
1	<b>B.</b> $0.34 \times 10^3$	N	33
	<b>C.</b> $3.4 \times 10^2$	🚧 у	vou're
1	<b>D.</b> $3.4 \times 10^3$	AM	AZING
1	E. $34 \times 10^2$	just	the way
	F. $34 \times 10^3$	yo	U ARE

\*\*

18	Use generalizations to determine the	(4-11)	Page :193
	placement of digits in a product.		

### What is the product? Use patterns to solve.

4.	$45 \times 17 = 765$	5.	32 × 14 =	
	45 × 1.7 =		$32 \times 1.4 = 44.8$	
	45 × 0.17 =		3.2 × 1.4 =	
6.	16 × 89 = 1.424	7.	61 × 22 =	
	16 × 8.9 =		6.1 × 22 = 134.2	
	16 × 0.89 =		6.1 × 2.2 =	
8.	96 × 55 =	9.	19 × 42 =	
	96 × 5.5 =		$1.9 \times 42 = 79.8$	
	9.6 × 5.5 = 52.8		1.9 × 4.2 =	
10	67 × 34 =	11	82 × 67 =	
	67 × 3.4 =		82 × 67 =	
	6.7 × 3.4 =		8.2 × 6.7 =	
8	Use generalizations to determine the	7		Page : 200

18	Use generalizations to determine the	7	Page : 200
	placement of digits in a product.		

Find the missing products.

(Lesson 6-5)

23 × 89 =

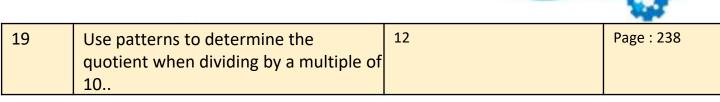
 $23 \times 8.9 = 204.7$ 

2.3 × 8.9 =

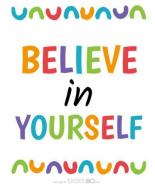


19	Use patterns to determine the	(11-13)	Page : 210
	quotient when dividing by a multiple of		
	10		

- There are 24,000 quarters in rolls of 40 quarters each. How many rolls of quarters are there?
- 12. Error Analysis Drew wants to solve 12,000 ÷ 20 by starting with this basic fact: 12 ÷ 2 = 6. Drew then uses patterns to find a quotient of 60. Is Drew correct? If not, what mistake did he make?
- 13. STEM Connection A building has 20 floors. The building has a total floor area of 40,000 square feet. What is the area of each floor? Explain.



 There are 18,000 envelopes in packs of 60. How many packs of envelopes are there? (Lesson 7-1)



20	Use the relationship between	(5-8)	Page : 217
	multiplication and division to		
	determine the quotient when dividing		
	by a two-digit divisor		

## Solve for the unknown.

5. 396 ÷ 12 = n	6.	$448 \div 16 = s$
n × 12 = 396		$s \times 16 = 448$
<b>7.</b> 312 ÷ 52 = m	8.	$533 \div 41 = a$
$m \times 52 = 312$		$a \times 41 = 533$

20	Use the relationship between	7	Page : 238
	multiplication and division to		
	determine the quotient when dividing		
	by a two-digit divisor		

Write a multiplication equation

you could use to solve 480 ÷ 12.

What is the solution?

(Lesson 7-3)

