

Name:	Date:	

#### EVERYDAY MATHEMATICS—3<sup>rd</sup> Grade Unit 6 Review: More Operations

1) Nolan used doubling to solve 6 X 8. This is what he did:

8

a. Explain Nolan's work.

Use doubling to solve 5 X 8.
 Draw a picture and write number models.
 You may use Nolan's work to help.

#### Unit 6 Review (continued)

2) Fill in the unit box. Then solve.

a.

Unit

3) In Baseball Multiplication, the greater the product from the dice roll, the better the hit. For each pair of facts below, circle the one that would give a better hit.

- a. 7 X 6 or 5 X 9
- b. 3 X 8 or 5 X 5
- c. 8 X 8 or 9 X 6

4) Show a multiplication strategy that can be used to solve this fact:  $9 \times 1 = 5$ 

6 X 7 = \_\_\_\_\_

<b>Unit 6 Review</b> 5) You have 42 p	oarty favors ar		ivide them	equal	ly among 7	bags. Hov	v many
party favors d	lo you put into	each bag?				Unit	
Use a letter You may co • Solve the no	nber model to to represent vomplete the d umber story. umber model vodel true.	what you wa iagram belo	w to help.		ıt your answ		the
Letter and wha	t it represents:	fo	or			•	
b	ags	party favo	ors per bag		party favor	s in all	
				`			
	umber model with	letter)					
Answer:			(unit)	8. j. j.			
. (	number model wi	th answer)					

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Camila used the o	order of operations to	solve this number sentence.
8 + 2 X 7 = 22		
		Rules for the Order of Operations
		<ol> <li>Do operations inside parentheses first. Follow</li> </ol>
		rules 2 and 3 when
		computing inside
		parentheses.
		2. Then multiply or divide, in order, from left to right.
		3. Finally add or subtract, in
		order, from left to right.
	ps for solving the num	nber sentence.
olain Camila's ste		
olain Camila's ste <sub>l</sub>		
olain Camila's ste <sub>l</sub>		
olain Camila's step		
olain Camila's ste		
olain Camila's step		

Unit 6 Review (continued) 8) Solve.
Mr. Manning's class has 7 tables with 3 children at each table and a table with 5 children.
How many children are in Mr. Manning's class?
Number model: (7 X 3) + 5 = C
a. Solve the number story using any strategy. Show your work.
Answer:(unit)
b. Explain how the number model fits the story.

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Name:		Date:_	

#### EVERYDAY MATHEMATICS—3<sup>rd</sup> Grade Unit 6 Challenge Review

1) Colin and Veronica subtracted to solve the problem below.

Colin's Work:

Veronica's Work:

Who got the correct answer? Who made a mistake? Explain your thinking.

Unit 6 Challenge Review (continued)	
2) Show how 8 X 9 can be solved using two different efficient multiplication strategies. Show your thinking with number sentences or words.  One way:	
Another way:	
3) Write a number story to fit this number sentence: D X 7 = 35.	
B represents	
b represents	
Number story:	
TROTTIDOL STOLY.	-
	-
Solve your number story. Record your answer with units.	
(unit)	ž.
()	

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Name:		Date:
		Daic.

#### EVERYDAY MATHEMATICS—3<sup>rd</sup> Grade Unit 6 Cumulative Review

1) Solve. You may draw a picture or a diagram.

The pet store has 7 fish in each fish tank.
There are 5 tanks. How many fish are there in all?

Answer:		
	(unit)	
Number sentence:		

2) Fill in the blanks.

Rule	
-	

in	out
3	15
4	20
6	30
7	35

Rule
÷ 3

in	out
6	
	3
15	
24	
	9

#### Unit 6 Cumulative Review (continued) 3) Fill in the blanks.

4) Emma was playing Salute! and saw 6 on her partner's forehead. The Dealer said 24.

What is the card on Emma's forehead? \_\_\_\_\_

How do you know? \_\_\_\_\_

5) Fill in the blanks.

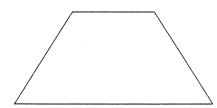
e. How are the facts in Problems 5a-5d alike?

6) Fill in the blanks.

b. 
$$5 =$$
  $\div 5$ 

7) Draw a picture and use words to explain why  $3 \times 4 = 4 \times 3$ .

8) a. Write a name for each quadrilateral.



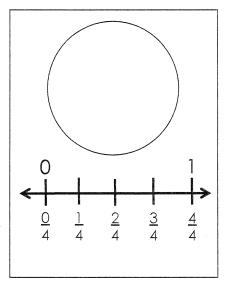




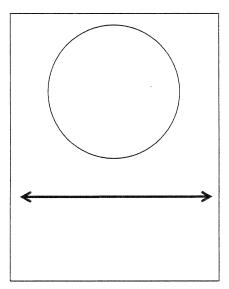
b. Circle one of the shapes.

Write a different name for that shape.

9) a. Shade the circle on this fraction card to show  $\frac{1}{4}$ .



b. On this fraction card, partition and shade the circle to show a fraction that is equivalent to ¼ but with a different denominator. You may use your fraction cards to help.



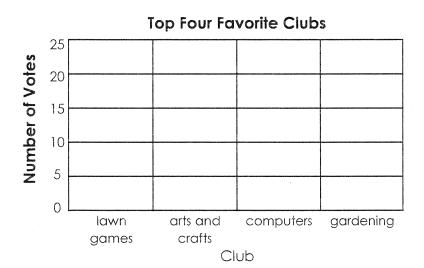
Name the fraction: \_\_\_\_\_

c. How do you know the fractions are equivalent?

Unit 6 Cumulative Review (continued)		
10) a. The mass of a soccer ball is about 425 The mass of a softball is about 184 gra	grams. ms.	
About how many more grams is a soci	cer ball than a softball?	
Estimate:		
Answer: about(u	nit)	
b. Explain how you know your answer makes		
		on the same of the
11) You draw this card in The Area and Perim	octor Camo	
11) 100 draw this card in the Area and Felin	elei Game.	
This is a 7-by-4 rectangle.		
,		
Find the area and the perimeter.		
Area:square units	Perimeter: units	

12) Fill in the bar graph for the top four clubs picked by third graders at Washington School.

Club	Number of Votes
lawn games	25
arts and crafts	15
computers	25
gardening	5



b. How many more votes did computers get than arts and a	crafts?
c. How many votes are there in all?	

d. Compare the number of votes for lawn games to the number of votes for arts and crafts and gardening together.

How many more votes were for arts and crafts and gardening together than for lawn games?

Unit 6 Cum						erskelm mit en men ste de de held met de met verskelmen de de verskelmen en sy fan men de met en
13) Measure t centimete	he length o er.	f the line se	gment to th	ne nearest h	alf inch and	d nearest
about	inch	nes	ab	out	_ centimete	ers
7.47.44	I			П		
14) Measure t	he side lenç	gths of this r	ectangle to	the neares	t inch and l	abel them.
1			T	1		
			; ; ; ; ; ; ;			
					! 	
			! ! ! ! ! !		 	
		i I L	i ! ! !		: 	
This is a		bv		rectanale.		

This is a	by	rectangle.
	(unit)	(unit)
Area:	square inches	
Number mod	del:	

15) Circle all the names for this shape.



square

triangle

quadrangle

rhombus

parallelogram rectangle

16) Solve each fact. Write another fact next to each using the turn-around rule.

#### EVERYDAY MATHEMATICS—3<sup>rd</sup> Grade Unit 6 Review: More Operations

1) Nolan used doubling to solve 6 X 8. This is what he did:

a. Explain Nolan's work.

Possible answer: Nolan broke 6 into 3 and 3. He multiplied 3 X 8 and got

24. Then he doubled 24 to get 48.

b. Use doubling to solve 5 X 8.

Draw a picture and write number models.

You may use Nolan's work to help.

#### Unit 6 Review (continued)

\*ANSWER KEY\*

2) Fill in the unit box. Then solve.

5 1 14

Unit

Answers will

- 2 3 9 3 8 5

3) In Baseball Multiplication, the greater the product from the dice roll, the better the hit. For each pair of facts below, circle the one that would give a better hit.

4) Show a multiplication strategy that can be used to solve this fact: 6 X 7 = ?

Strategies will vary.

Unit 6 Review (continued) *ANSWER KEY*			
5) You have 42 party favors and want to divide them equally among 7 bags. How many party favors do you put into each bag?			
party ravers de yeu per inne eder sag.	Unit		
<ul> <li>Write a number model to fit the story. Use a letter to represent what you want to find out. You may complete the diagram below to help.</li> <li>Solve the number story.</li> <li>Write the number model with your answer to check that your answer model true.</li> </ul>	party favors ver makes the		
Letter and what it represents:P forparty favors	·		

bags	party favors per bag	party favors in all
7	Ś	42

Possible answers:  $42 \div 7 = P$ ;  $7 \times P = 42$  (number model with letter)

Answer:	6 party favors	
		(unit)
Possible	answers: $42 \div 7 = 6$ ; $7 \times 6 = 42$	
	(number model with answer)	

Unit 6 Review (continued)

\*ANSWER KEY\*

6) Xavier and Violet solved this number sentence: 5 X (4 + 3) = ? Xavier says the answer is 23, and Violet says the answer is 35. Who is correct? Explain.

Possible answer: Violet is correct. The parentheses mean that 4 + 3 should be

done first. So 4 + 3 = 7 and 5 X 7 = 35.

7) Camila used the order of operations to solve this number sentence.

$$8 + 2 \times 7 = 22$$

#### Rules for the Order of Operations

- 1. Do operations inside parentheses first. Follow rules 2 and 3 when computing inside parentheses.
- 2. Then multiply or divide, in order, from left to right.
- 3. Finally add or subtract, in order, from left to right.

Explain Camila's steps for solving the number sentence.

Possible answer: First Camila solved 2 X 7 and got 14. Then she added 8 to 14

and got 22.

Unit 6 Review (continued) \*ANSWER KEY\*

8) Solve.

Mr. Manning's class has 7 tables with 3 children at each table and a table with 5 children.

How many children are in Mr. Manning's class?

Number model:  $(7 \times 3) + 5 = C$ 

Solve the number story using any strategy. Show your work.

CCC

CCC

CCC

CCC

 $7 \times 3 = 21$ 21 + 5 = 26

CCC

CCC

CCC

CC

26 children Answer: \_\_\_\_

(unit)

Explain how the number model fits the story.

Possible answer: 7 X 3 shows 3 children each sitting at 7 tables. The + 5 shows the

number of other children in the class. 21 + 5 = 26. There are 26 children

altogether in the class.

Name: \*ANSWER KEY\* Date: \_\_\_\_\_

#### EVERYDAY MATHEMATICS—3<sup>rd</sup> Grade Unit 6 Challenge Review

1) Colin and Veronica subtracted to solve the problem below.

Colin's Work:

Veronica's Work:

Who got the correct answer? Who made a mistake? Explain your thinking.

Possible answer: Colin is correct because he traded 1 hundred for 10 tens. He changed 8 hundreds to 7 hundreds and 3 tens to 13 tens. Then he could subtract to get 464. Veronica made a mistake because she did not trade. She cannot subtract 7 tens from 3 tens to get 4 tens.

2) Show how 8 X 9 can be solved using two different efficient multiplication strategies. Show your thinking with number sentences or words. One way:
Possible answer: I used 8 X 10 = 80 as my helper fact and subtracted a group of 8. So 8 X 9 = 80 $-$ 8 = 72.
Another way:
Possible answer: I used doubling. $4 \times 9 = 36$ , so $8 \times 9 = 36 + 36 = 72$ .
3) Write a number story to fit this number sentence: D X 7 = 35.
D represents Answers will vary.
Number story:
Possible answer: Karla has 7 doll houses. She wants to put the same number of
dolls in each house. She has 35 dolls in all. How many dolls in each house?
Solve your number story. Record your answer with units.
Possible answer: 5 dolls
(unit)

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Unit 6 Challenge Review (continued) \*ANSWER KEY\*

Name:	*ANSWER KEY	*
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\_\_\_\_\_Date: \_\_\_\_\_

#### EVERYDAY MATHEMATICS—3<sup>rd</sup> Grade Unit 6 Cumulative Review

1) Solve. You may draw a picture or a diagram.

The pet store has 7 fish in each fish tank. There are 5 tanks. How many fish are there in all?

∆nswer	35	fis
angwer.		

(unit)

Number sentence:  $7 \times 5 = 35$ 

2) Fill in the blanks.

Rule	
X 5	

in	out
3	15
4	20
6	30
7	35
5	25

Rule
÷ 3

in	out
6	2
9	3
15	5
24	8
27	9

3) Fill in the blanks.

d. 
$$\frac{7}{2}$$
 X 4 = 4 X 7

4) Emma was playing Salute! and saw 6 on her partner's forehead. The Dealer said 24.

What is the card on Emma's forehead? \_\_\_\_\_4

How do you know? \_\_\_\_\_

Possible answer: I thought 6 X what number is 24 and knew it was 4. I knew that

24 ÷ 6 = 4.

5) Fill in the blanks.

c. 
$$5 \times 5 = \underline{25}$$

e. How are the facts in Problems 5a-5d alike?

Possible answer: They all make square arrays. Each fact has 2 of the same factor.

6) Fill in the blanks.

a. 
$$50 \div 5 = _____10$$

b. 
$$5 = \frac{25}{} \div 5$$

7) Draw a picture and use words to explain why  $3 \times 4 = 4 \times 3$ .

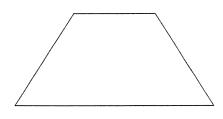
Possible answer: I can draw an array for 3 X 4 and another array for 4 X 3. If I turn one of the arrays, it will match the other.

I know that 3 X 4 is 12 and 4 X 3 is also 12 because of the turn-around rule.

$$\times$$
  $\times$   $\times$ 

$$\times$$
  $\times$   $\times$   $\times$ 

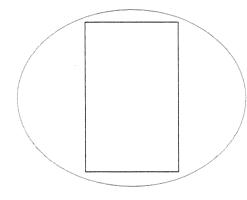
8) a. Write a name for each quadrilateral.



trapezoid



square

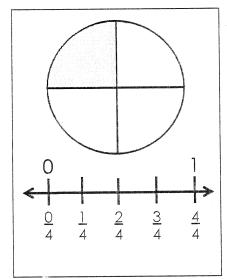


rectangle

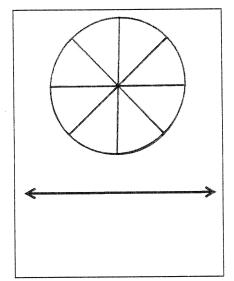
b. Circle one of the shapes. Answers will vary.

Write a different name for that shape. Possible answer: parallelogram

9) a. Shade the circle on this fraction card to show  $\frac{1}{4}$ .



b. On this fraction card, partition and shade the circle to show a fraction that is equivalent to 1/4 but with a different denominator. You may use your fraction cards to help.



Possible answer

Other possible fractions:

Name the fraction: Possible answer: 28

c. How do you know the fractions are equivalent?

Possible answer: The shaded area of each circle is the same size.

Unit 6 Cumulative Review (continued) *ANSWER KEY*
10) a. The mass of a soccer ball is about 425 grams. The mass of a softball is about 184 grams.
About how many more grams is a soccer ball than a softball?
Estimate: 400 - 200 = 200 or 430 - 180 = 250
Answer: about241 grams
(unit)
b. Explain how you know your answer makes sense.
Possible answer: I knew the answer had to be less than 425 grams because I
subtracted. Ladded 241 to 184 grams and got 425, so I know my answer is correct.
11) You draw this card in The Area and Perimeter Game:
This is a 7-by-4 rectangle.
Find the area and the perimeter.

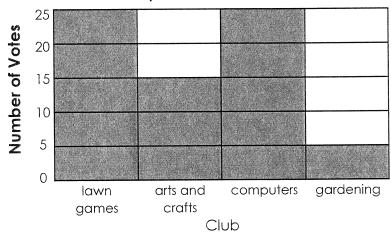
Area: <u>28</u> square units

Perimeter: 22 units

12) Fill in the bar graph for the top four clubs picked by third graders at Washington School.

Club	Number of Votes
lawn games	25
arts and crafts	15
computers	25
gardening	5





b. How many more votes did	computers	get	than	arts	and	craf	ţs\$
10 votes							

c. How many votes are there in all? \_\_\_\_\_\_70 votes

d. Compare the number of votes for lawn games to the number of votes for arts and crafts and gardening together.

How many more votes were for arts and crafts and gardening together than for lawn games?

5 votes	
~ \/\cappa_i \	
J V O I G S	

13) Measure the length of the line segment to the nearest half inch and nearest centimeter.

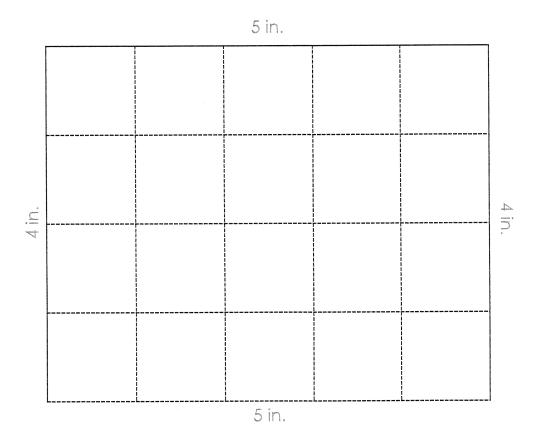
\*Please Note: Indi

\*Please Note: Individual printer/copier settings may alter the actual measurement. Please check your copy before referring to the answer key.

about  $\frac{4^{1/2}}{2}$  inches

about \_\_\_\_\_1 centimeters

14) Measure the side lengths of this rectangle to the nearest inch and label them.



This is a \_\_\_\_\_\_ by \_\_\_\_\_ 4 in \_\_\_\_\_ rectangle.

Area: \_\_\_\_\_square inches

Number model:  $5 \times 4 = 20$ 

\*Please Note: Individual printer/ copier settings may alter the actual measurement. Please check your copy before referring to the answer key.

15) Circle all the names for this shape.

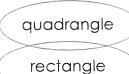


square

rhombus

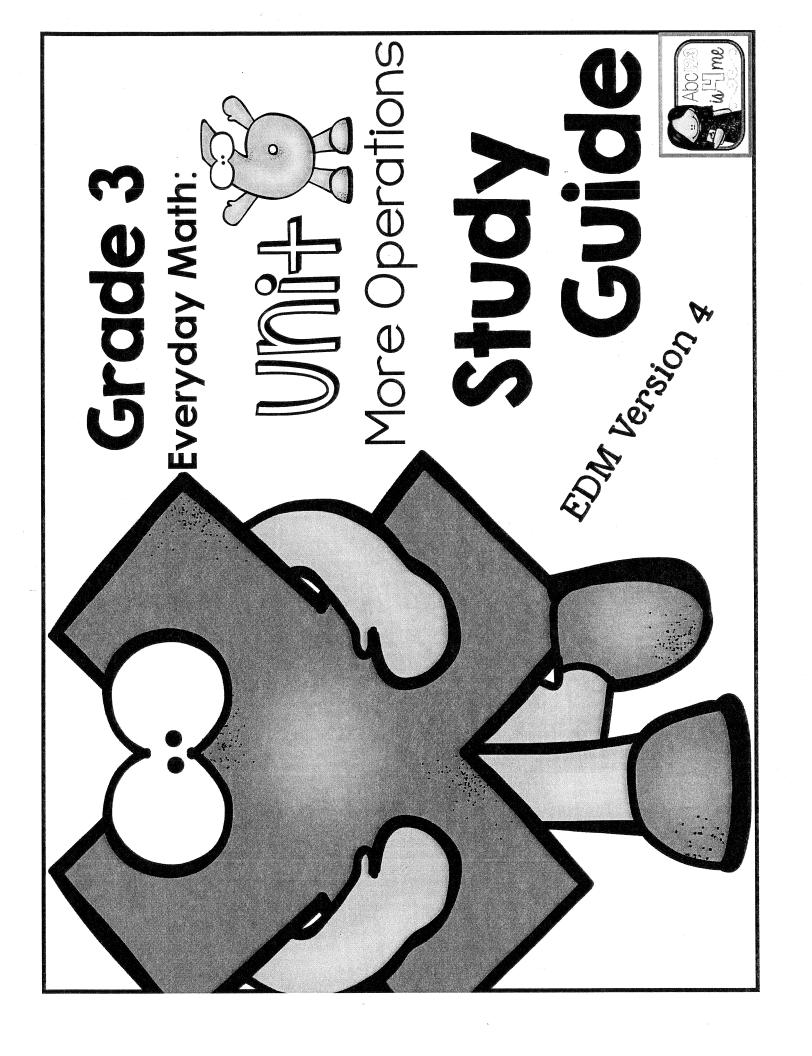
triangle

parallelogram



16) Solve each fact. Write another fact next to each using the turn-around rule.

a. 
$$\frac{12}{}$$
 = 3 X 4



Name:

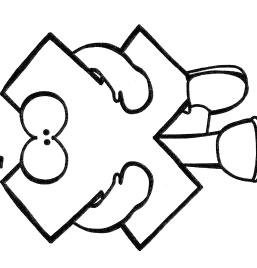
Test Date:

Grade 3

Everyday Math: Unit

More Operations

# Study Guide



## Unit Vocabulary:

appropriate, efficient, equation, fact power, multiplication/division diagram, order of operations, parentheses, trade-first subtraction

### Lesson 6.1:

How do you use the trade-first method to solve subtraction problems?

Fill in the unit box. Then solve.

**b.** 
$$441 - 269 =$$



## Lesson 6.2:

Why is increasing your multiplication fact fluency important?

In Baseball Multiplication, the greater the product from the dice roll, the better the hit. For each pair of facts below, circle the one that would give a better hit.

a. 
$$5 \times 5$$
 or  $4 \times 7$ 

**b.** 
$$8 \times 8$$
 **or**  $7 \times 9$ 

**c.** 
$$4 \times 2$$
 **or**  $7 \times 1$ 

## Lesson 6.3:

How do you use square products as helper facts to find the products of near squares? Show a multiplication strategy that can be used to solve this fact:

$$9 \times 4 = 6$$

## Lesson 6.4:

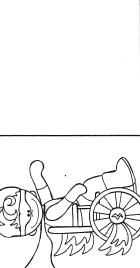
How can you use your multiplication strategies to improve your fact fluency?





Record one fact that you are still practicing or you think might be challenging for someone else. Show how you can figure it out efficiently.





## Lesson 6.5:

Exploration A: How do you construct quadrilaterals to match written descriptions?

This shape is a:

a. rhombus

b. square

c. both



a. parallelogram

b. rhombus

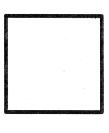
c. both



Find the measurement of the line below to the nearest  $\frac{1}{2}$  inch.  $\overline{\text{Exploration B}}$ : How do you measure to the nearest  $\normalfa$  inch?

inches

Exploration C: How do you calculate the perimeter of a polygon?



inches

Perimeter:\_\_

Distance traveled:

inches

Pg. 3

#### Lesson 6.6:

How do you use multiplication/division diagrams to make sense of and solve number stories?

## You have 54 gumballs and want to divide them equally among 6 small bags. How may gumballs do you put in each bag?

- Write a number model to fit the story. Use a letter to represent what you want to find out. You may complete the diagram below to help.
- Solve the number story
- Write the number model with your answer to check that your answer makes the number model true.

tor	gumballs in all	
Letter and what it represents:	gumballs per bag	
Letter and w	bags	

(number model with letter)

Answer:

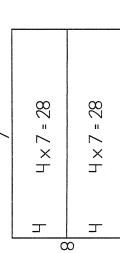
(unit)

(number model with answer)

### Lesson 6.7:

How can you use multiplication strategies to multiply larger factors?

Kate used doubling to solve  $8 \times 7$ . This is what she did:



a. Explain Kate's work.

**b.** Use doubling to solve  $3 \times 6$ .

Draw a picture and write number models.

You may use Kate's work to help.

### Lesson 6.8:

How do you use parentheses in number sentences?

Lilly and Fran solved this number sentence:  $4 \times (5 + 3) = ?$ Lilly says the answer is 23, and Fran says the answer is 32. Who is correct? Explain.

## Lesson 6.9:

How do you write a two-step number story to fit a number sentence?

Write a number story to fit this number sentence.

$$15 - (5 \times 2) = 5$$

### Lesson 6.10:

How do you apply the order of operations to solve multistep problems?

Stephen used the order of operations to solve this number sentence.

 $4 + 5 \times 5 = 29$ 

## Rules for the Order of Operations

- 1. Do operations inside parentheses first. Follow rules 2 and 3 when computing inside parentheses.
- 2. Then multiply or divide, in order, from left to right.
- 3. Finally add or subtract, in order, from left to right.

Explain Stephen's steps for solving the number sentence.

#### Lesson 6.II:

How do you solve two-step number stories and represent them with equations?

Solve

Mr. Roger's class has 7 tables with 4 children at each table and a table with 2 children. How many children are in Mr. Roger's class?

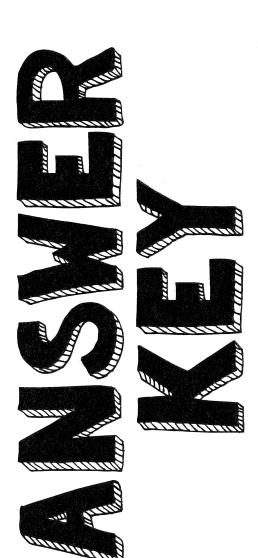
Number model: 
$$(7 \times 4) + 2 = C$$

a. Solve the number story using any strategy. Show your work.

Answer:

(unit)

**b.** Explain how the number model fits the story.



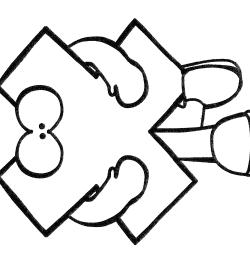
Test Date:

Grade 3

Everyday Math: UM

More Operations

# Study Guide



## Unit Vocabulary:

appropriate, efficient, equation, fact power, multiplication/division diagram, order of operations, parentheses, trade-first subtraction

#### Lesson 6.1:

How do you use the trade-first method to solve subtraction problems?

Fill in the unit box. Then solve.

**b.** 
$$441 - 269 = 1/2$$



$$441 - 269 = 172$$

### **Lesson 6.2:**

Why is increasing your multiplication fact fluency important?

In Baseball Multiplication, the greater the product from the dice roll, the better the hit. For each pair of facts below, circle the one that would give a better hit.

**c.** 
$$4 \times 2$$
 **or**  $7 \times 1$ 

#### Lesson 6.3:

How do you use square products as helper facts to find the products of near squares? Show a multiplication strategy that can be used to solve this fact:

$$9 \times 4 = 36$$

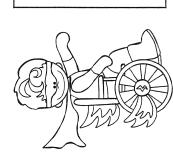
#### Lesson 6.4:

How can you use your multiplication strategies to improve your fact fluency?

In the boxes below, record three facts for which you have "fact power."



Record one fact that you are still practicing or you think might be challenging for someone else. Show how you can figure it out efficiently.

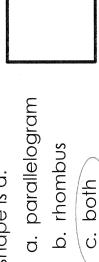


Answers will vary

#### Lesson 6.5:

Exploration A: How do you construct quadrilaterals to match written descriptions?

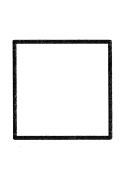
This shape is a: a. rhombus b. square This shape is a: c. both

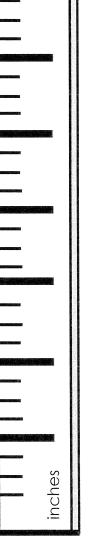


Find the measurement of the line below to the nearest  $\frac{1}{2}$  inch.  $\overline{\text{Exploration B}}$ : How do you measure to the nearest  $\Bar{k}$  inch?

5/2 inches

Exploration C: How do you calculate the perimeter of a polygon?





Perimeter: \_\_\_\_ inches

Distance traveled: Hinches

(unit)

#### Pg. H

#### Lesson 6.6:

How do you use multiplication/division diagrams to make sense of and solve number stories?

## You have 54 gumballs and want to divide them equally among 6 small bags. How may gumballs do you put in each bag?

- Write a number model to fit the story. Use a letter to represent what you want to find out. You may complete the diagram below to help.
- Solve the number story
- Write the number model with your answer to check that your answer makes the number model true.

$\times$	
<u>_</u>	
$\Psi$	
gumballs per ba	
ന	
No. // Mariananananan Marianananan Marianananan	
$\Omega$	
$\subseteq$	
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Samuel Street	
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It it represents:	-

bags	gumballs per bag	gumballs in all
9	9	54

$$54 \div 6 = 6$$
 OR  $6 \times 6 = 54$ 

Answer: dgumballs

 $54 \div 6 = 90R6 \times 9 = 54$ 

### Lesson 6.7:

How can you use multiplication strategies to multiply larger factors?

Kate used doubling to solve  $8 \times 7$ . This is what she did:

4 4×7=28 4 4×7=28

8 × 7 = 4 × 7 + 4 × 7 8 × 7 = 28 + 28 8 × 7 = 56

a. Explain Kate's work.

Kate broke 8 into 4 and 4. She multiplied 4 x 7 and act 28 Then she doubled 28 to get 56. 8 x 7= 56.

**b.** Use doubling to solve  $3 \times 6$ .

Draw a picture and write number models.

You may use Kate's work to help.

3×6= 3×3+3×3 3×6= 9+9 3×6= 18

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### Lesson 6.8:

How do you use parentheses in number sentences?

Lilly and Fran solved this number sentence:  $4 \times (5 + 3) = ?$ Lilly says the answer is 23, and Fran says the answer is 32. Who is correct? Explain. Fran is correct. The parentheses mean that 5 + 3 should be done first. So 5 + 3 = 8 and 4 x 8 = 32.

## Lesson 6.4:

How do you write a two-step number story to fit a number sentence?

Write a number story to fit this number sentence.

 $15 - (5 \times 2) = 5$ 

Answers Vary-Sample: Ritahas 5 bags of marbles with 2 marbles in each bag. Her friend Bill want 15 marbles. How many more marbles does Rita need?

## Lesson 6.10:

How do you apply the order of operations to solve multistep problems?

Stephen used the order of operations to solve this number sentence.

 $4 + 5 \times 5 = 29$ 

## Rules for the Order of Operations

- 1. Do operations inside parentheses first. Follow rules 2 and 3 when computing inside parentheses.
- 2. Then multiply or divide, in order, from left to right.
- 3. Finally add or subtract, in order, from left to right.

Explain Stephen's steps for solving the number sentence.

First, Stephen solved 5 x 5 and got 25. Then he added

4 to 25 and got 29.

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#### Lesson 6.II:

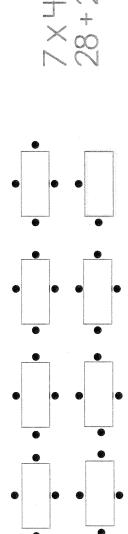
How do you solve two-step number stories and represent them with equations?

#### Solve.

Mr. Roger's class has 7 tables with 4 children at each table and a table with 2 children. How many children are in Mr. Roger's class?

Number model:  $(7 \times 4) + 2 = C$ 

a. Solve the number story using any strategy. Show your work.



Answer: 30 children

**b.** Explain how the number model fits the story.

The 7 x 4 shows the number of children sitting at 7 tables.

The +2 shows the number of other children in the class.

Together there are 30 children in the class.