

Unit 6 Assessment

- ① Jenny used doubling to solve 6×7 .
This is what she did:

		7	
	3	$3 \times 7 = 21$	
6	3	$3 \times 7 = 21$	

$$6 \times 7 = 3 \times 7 + 3 \times 7$$

$$6 \times 7 = 21 + 21$$

$$6 \times 7 = 42$$

- a. Explain Jenny's work.

- b. Use doubling to solve 3×8 .
Draw a picture and write number models.
You may use Jenny's work to help.



Unit 6 Assessment (continued)

- ② Fill in the unit box. Then solve.

Unit

a.
$$\begin{array}{r} 753 \\ -358 \\ \hline \end{array}$$

b. $331 - 159 = \underline{\hspace{2cm}}$

- 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. 6×6 or 5×8

b. 6×9 or 7×7

c. 4×3 or 2×7

- ④ Show a multiplication strategy that can be used to solve this fact:

$8 \times 4 = ?$

$8 \times 4 = \underline{\hspace{2cm}}$



Unit 6 Assessment (continued)

- 5 You have 48 stickers and want to divide them equally among 6 small bags. How many stickers do you put into 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.

Letter and what it represents: _____ for _____

bags	stickers per bag	stickers in all

_____ (number model with letter)

Answer: _____ (unit)

_____ (number model with answer)



Unit 6 Assessment (continued)

- ⑥ Magi and Katrina solved this number sentence: $3 \times (6 + 2) = ?$
Magi says the answer is 20, and Katrina says the answer is 24.
Who is correct? Explain.

- ⑦ Andy used the order of operations to solve this number sentence.

$$3 + 6 \times 5 = 33$$

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 Andy's steps for solving the number sentence.



Unit 6 Assessment (continued)

8 Solve.

Mrs. Sierra's class has 6 tables with 4 children at each table and a table with 3 children.

How many children are in Mrs. Sierra's class?

Number model: $(6 \times 4) + 3 = C$

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

Answer: _____
(unit)

b. Explain how the number model fits the story.



Unit 6 Challenge

- ① Melanie and Devon subtracted to solve the problem below.

This is Melanie's work.

$$\begin{array}{r} 729 \\ -355 \\ \hline 434 \end{array}$$

Unit
stars

This is Devon's work.

$$\begin{array}{r} 612 \\ \cancel{7}29 \\ -355 \\ \hline 374 \end{array}$$

Unit
rocks

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



Unit 6 Challenge (continued)

- ② Show how 6×8 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: $B \times 6 = 42$

B represents _____.

Number story: _____

Solve your number story. Record your answer with units.

_____ (unit)