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# **Unit 8 Cumulative Assessment**

For each story:

- Write a number model. Use a letter for what you want to find out. You may complete the diagram to help.
- Solve. Then write the number model with your answer to check your work.
- Laurie bought 7 boxes of pencils. There were 8 pencils per box.

How many pencils did she buy in all?

Boxes	Pencils in each box	Pencils in all	

The letter \_\_\_\_\_ represents \_\_\_\_\_

(number model with letter)

Laurie bought \_\_\_\_\_\_.

(unit)

(number model with answer)

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(2) The art teacher shared 40 balls of yarn equally among the 10 children in the art club. How many balls of yarn did each child get?

Children	Balls of yarn per child	Balls of yarn in all

The letter \_\_\_\_\_ represents \_\_\_\_\_

(number model with letter)



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(4) A.J. used the break-apart strategy to solve 7 × 9 by breaking 9 into the easier numbers 5 and 4. See her picture below.



Use A.J.'s easier numbers and drawing to write number models that she can use to help solve 7  $\times$  9.





6 Nathan has 5 bags of marbles.
 Each bag has 4 yellow marbles and 6 red marbles.

Lach bag has 4 genow marbles and o red marble

How many marbles does Nathan have in all?

The letter *M* represents the number of marbles that Nathan has.

a. Underline the number model that fits the story.

 $5 \times 4 + 6 = M$   $5 \times (4 + 6) = M$   $(5 + 4) \times 6 = M$ 

**b.** Solve the number story. You may draw a picture to help.

Answer:	

(unit)

c. Write the number model with your answer to check your work.

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7 Cross out the names that do not belong.

Add at least two more names with parentheses that belong in the name-collection box.

 18

  $(3 \times 4) + 6$   $3 \times (4 + 6)$ 
 $(64 \div 8) + 10$   $(18 + 8) \times 0$ 
 $3 \times (36 \div 6)$ 

- (8) For each problem, make an estimate and solve. Check to make sure your answer makes sense.
  - a. Estimate: \_\_\_\_\_
    - 539 +358
  - b. Estimate: \_\_\_\_\_

847 - 648 = \_\_\_\_\_

Unit



9 Partition the circle into 8 equal parts. Label each part.



Shade  $\frac{3}{4}$  of the circle.

Write two fractions that name the **unshaded** part of the circle.

(10) Write the time shown on the clocks below.



What time does the clock show? \_

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(1) Frank practiced his drums for 50 minutes.

He started playing at 4:18 P.M. What time did he finish?

He finished at \_\_\_\_\_ P.M.

- Ahmed has 900 milliliters (mL) of water in his watering can.
   One jar holds 379 mL of water and the other holds 483 mL of water.
   How much water does Ahmed need to fill both jars?
  - a. Estimate: \_\_\_\_\_

Answer:	
	(unit)

**b.** Does Ahmed have enough water to fill both jars? \_\_\_\_\_

Did you need to find an exact answer to decide whether Ahmed has enough water? Explain.

(13) You draw this card in *The Area and Perimeter Game*:



a. Find the area and the perimeter.

Area: \_\_\_\_\_ square units

Perimeter: \_\_\_\_\_ units

- **b.** Explain how you found the area.
- Addie wants to put a cloth rug in her dollhouse. The area she wants to cover is 36 square inches. If Addie wants a square rug, how long and how wide should she cut the cloth?

Draw a picture of the rug and label the side lengths.

The rug should be cut	long and
wide.	
What is the perimeter of the rug?	(unit)

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(15) The third-grade class is figuring out the area of the floor in the reading space.

Here is a sketch of the reading space:



Draw a line to make two smaller rectangles you can use to find the area.

Show your work. Write the number models you use.

Number models:

The area of the reading space is \_\_\_\_\_

(unit)

**16** The perimeter of this rectangle is 24 centimeters.

Label the missing side lengths.





**a.** Draw a rectangle with a perimeter of 16 centimeters.
 Then draw a different rectangle with the same perimeter.

Label your rectangles A and B.

= 1 square cm

**b.** Explain how you know the perimeters for Rectangle A and Rectangle B are 16 centimeters.



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Ur	nit 8 Cumulati	ve Assessm	ent (continu	led)
18	The mass of a base Greg has one 100-g five 10-gram masse What masses could	eball is 142 gram gram mass, one s es, five 5-gram m he use to baland	s. 50-gram mas asses, and fi ce the baseba	s, ive 1-gram masses. all?
19	The 1-liter beaker a 350 milliliters of wa Imani wants to have How much more wa She needs of water to make 1	t the right has iter. e a full liter of wa ter does she nee more milliliters liter.	ter. d to add?	1,000 mL 900 800 700 600 500 400 300 200 100 50 mL
20	Tony said $\frac{3}{4}$ of Rect $\frac{3}{4}$ of Rectangle B. Erin said $\frac{3}{4}$ of Recta $\frac{3}{4}$ of Recta $\frac{3}{4}$ of Rectangle B. With whom do you	angle A is equal Ingle A is not equ agree? Explain.	to ıal to	A B