

## Unit 6

# Unit Assessment, Form B

Name \_\_\_\_\_

1. Which is a reasonable estimate of the product of 2,813 and 5?

**A.** 15,000      **B.** 8,000      **C.** 10,000      **D.** 1,500

2. How can you find the product? Complete the equation.

$$70 \times 20 = 70 \times \underline{\hspace{2cm}} \text{ tens}$$

$$= \underline{\hspace{2cm}} \text{ tens}$$

$$= \underline{\hspace{2cm}}$$

3. How can you use partial products to solve? Complete the equation.

$$63 \times 21$$

$$63 \times 21 = (\underline{\hspace{2cm}} + 3) \times (\underline{\hspace{2cm}} + 1)$$

$$63 \times 21 = (60 \times \underline{\hspace{2cm}}) + (60 \times \underline{\hspace{2cm}})$$

$$+ (\underline{\hspace{2cm}} \times 20) + (\underline{\hspace{2cm}} \times 1)$$

$$63 \times 21 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$63 \times 21 = \underline{\hspace{2cm}}$$

4. How can you find the product? Use partial products to solve.

$$879 \times 3$$

$$3 \times 879 = (3 \times \underline{\hspace{2cm}}) + (3 \times \underline{\hspace{2cm}})$$

$$+ (3 \times \underline{\hspace{2cm}})$$

$$3 \times 879 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$3 \times 879 = \underline{\hspace{2cm}}$$

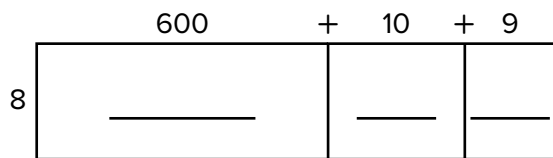
5. What's the product? Complete the equation.

$$5 \times 4,000 = 5 \times 4 \times \underline{\hspace{2cm}}$$

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

$$= \underline{\hspace{2cm}}$$

6. A game store sells video games for \$22. The game store owner expects to sell 8 video games in one hour. Choose the best estimate for how much money the game store owner can expect to make on video games in one hour?
- A. about \$1,600  
 B. about \$160  
 C. about \$240  
 D. about \$200
7. Alicia uses 200 beads to make bracelets for a craft fair. She uses 4 times as many beads to make necklaces. How many beads does she use for necklaces?
- 8 a. What is the product of  $8 \times 619$ ? Fill in the area model to find the partial products.



b.  $8 \times 619 =$  \_\_\_\_\_

9. Nick buys art supplies for his class. A can of paint cost \$12 and a package of brushes costs \$8. What is the total cost of 9 cans of paint and 15 packages of brushes? How can you write an equation to solve?

Unit 6  
Unit Assessment, Form B (continued)

Name .....

10. Ana practices the piano for 20 minutes every day for 40 days.  
How many total minutes does she practice?

11. How can you use the Distributive Property to find the product?  
Complete the equation.

a.  $8 \times 4 = (\underline{\quad} \times 4) + (2 \times \underline{\quad})$   
 $= \underline{\quad} + \underline{\quad}$   
 $= \underline{\quad}$

b.  $15 \times 9 = (\underline{\quad} \times 9) + (5 \times \underline{\quad})$   
 $= \underline{\quad} + \underline{\quad}$   
 $= \underline{\quad}$

12. Katya is going to the movies with her friends and family. An adult ticket costs \$11 and a child ticket costs \$8. What is the total cost of 4 adults tickets and 7 child tickets? How can you write an equation to solve?

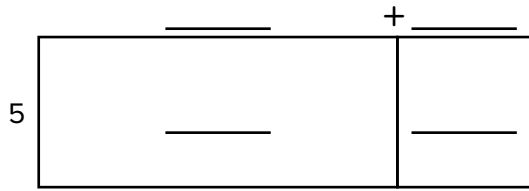
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**13.** How can you decompose a factor and find the partial products?

Complete the area model and equation to show your work.

$$5 \times 28$$



$$5 \times 28 = (5 \times \underline{\quad\quad}) + (5 \times \underline{\quad\quad})$$

$$5 \times 28 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$5 \times 28 = \underline{\quad\quad}$$

**14.** How can you use an area model to multiply  $172 \times 94$ ? Use drawings and words to explain your work.