



Chapter Review/Test

► Vocabulary

Choose the best term from the box to complete the sentence.

- The _____ Property of Multiplication states that when the grouping of factors is changed, the product is the same. (p. 155)
- A _____ of 9 is any product that has 9 as one of its factors. (p. 137)

Vocabulary

Associative Property
of Multiplication
Distributive Property
multiple

► Concepts and Skills

Use arrays to show each property.

3. Distributive Property

Break apart the array to show
 $8 \times 6 = (4 \times 6) + (4 \times 6)$.



4. Associative Property of Multiplication

Circle groups to show $3 \times (2 \times 3)$.



Find the product.

- $\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$
- $\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$
- $\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$
- $\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$
- $\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$
- $\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$

- $9 \times 0 = \underline{\hspace{2cm}}$
- $7 \times 8 = \underline{\hspace{2cm}}$
- $4 \times 8 = \underline{\hspace{2cm}}$
- $2 \times 6 = \underline{\hspace{2cm}}$

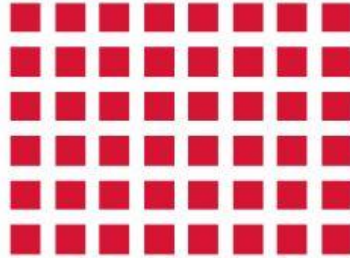
- $9 \times 9 = \underline{\hspace{2cm}}$
- $3 \times 4 = \underline{\hspace{2cm}}$
- $5 \times 10 = \underline{\hspace{2cm}}$
- $7 \times 3 = \underline{\hspace{2cm}}$

Fill in the bubble for the correct answer choice.

19. Which number sentence is an example of the Distributive Property?
- (A) $5 \times 9 = (5 \times 5) + (5 \times 4)$
(B) $(3 \times 2) \times 5 = 3 \times (2 \times 5)$
(C) $5 \times 9 = 9 \times 5$
(D) $5 \times 9 = 45$
20. Adel needs 5 pieces of ribbon, each 8 centimeters long. How much ribbon does she need altogether?
- (A) 13 centimeters (C) 35 centimeters
(B) 32 centimeters (D) 40 centimeters
21. When Chloe finds the multiplication facts for 2, which digit will NOT be in the ones place of the products?
- (A) 8 (C) 4
(B) 6 (D) 3
22. Vicky went to the store and bought 3 pairs of shorts. They each cost \$8. How much did she spend?
- (A) \$3 (B) \$8 (C) \$21 (D) \$24
23. A honeybee is an insect. It has 6 legs. How many more legs do 7 honeybees have than 5 honeybees?
- (A) 5 (C) 12
(B) 6 (D) 30
24. Jody has bags of shells. Each bag has 6 shells. She gives 3 bags to each of 2 friends. How many shells did Jody give away?
- (A) 36 (B) 18 (C) 12 (D) 6
25. The camping club rents 4 rafts. Each raft can hold 6 people. How many people can 4 rafts hold?
- (A) 16 (B) 20 (C) 24 (D) 30

Name _____

26. James made an array with 6 rows of 8 blocks. Which number sentence shows one way to break apart his array to find the product?



- (A) $6 \times 8 = (6 + 4) + (6 + 4)$
(B) $6 \times 8 = (6 \times 4) + (6 \times 4)$
(C) $6 \times 8 = (3 \times 4) + (3 \times 4)$
(D) $6 \times 8 = (6 \times 8) + (6 \times 8)$
27. Zach and his dad baked some cupcakes for his class. They put 6 cupcakes on each of 8 plates. How many cupcakes did they put on the plates?
- (A) 12
(B) 14
(C) 24
(D) 48
28. Sydnee's class is studying animals that hibernate, or go into a sleep-like state during the winter. A black bear's heartbeat slows to about 9 beats per minute during hibernation. About how many times will a black bear's heart beat in 5 minutes?