



Chapter Review/Test

► Vocabulary

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

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

Vocabulary

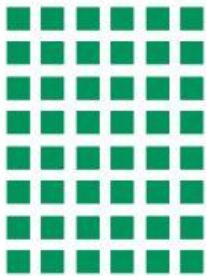
Associative Property of Multiplication
Distributive Property
multiple

► 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.

5.
$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

11. $9 \times 0 = \underline{\hspace{2cm}}$
 12. $7 \times 8 = \underline{\hspace{2cm}}$
 13. $4 \times 8 = \underline{\hspace{2cm}}$
 14. $2 \times 6 = \underline{\hspace{2cm}}$

15. $9 \times 9 = \underline{\hspace{2cm}}$
 16. $3 \times 4 = \underline{\hspace{2cm}}$
 17. $5 \times 10 = \underline{\hspace{2cm}}$
 18. $7 \times 3 = \underline{\hspace{2cm}}$

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

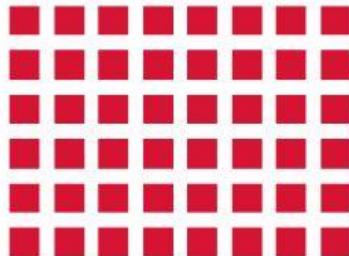
24. Jody has bags of shells. Each bag has 6 shells. She gives 3 bags to each of 2 friends. How many shells did Jody give away?

- (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

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?

(A) 45
(B) 36
(C) 18
(D) 9