



Determine which choice best shows the identity property of multiplication.

**Answers**

1) A.  $0 \times 1 = 0$

B.  $(0 \times 10) + (0 \times 7) = 0 \times (10 + 7)$

C.  $(0 \times 10) \times 7 = 0 \times (10 \times 7)$

D.  $0 \times 10 = 10 \times 0$

2) A.  $(8 \times 4) + (8 \times 7) = 8 \times (4 + 7)$

B.  $8 \times 4 = 4 \times 8$

C.  $(8 \times 4) \times 7 = 8 \times (4 \times 7)$

D.  $8 \times 1 = 8$

3) A.  $8 \times 5 = 5 \times 8$

B.  $8 \times (5 \times 4) = (8 \times 5) \times 4$

C.  $1 \times 8 = 8$

D.  $8 \times (5 + 4) = (8 \times 5) + (8 \times 4)$

4) A.  $10 \times 9 = 9 \times 10$

B.  $10 \times (9 + 5) = (10 \times 9) + (10 \times 5)$

C.  $1 \times 10 = 10$

D.  $10 \times (9 \times 5) = (10 \times 9) \times 5$

5) A.  $3 \times 10 = 10 \times 3$

B.  $3 \times (10 \times 2) = (3 \times 10) \times 2$

C.  $3 \times (10 + 2) = (3 \times 10) + (3 \times 2)$

D.  $1 \times 3 = 3$

6) A.  $0 \times 10 = 10 \times 0$

B.  $0 \times (10 + 5) = (0 \times 10) + (0 \times 5)$

C.  $1 \times 0 = 0$

D.  $0 \times (10 \times 5) = (0 \times 10) \times 5$

7) A.  $2 \times 1 = 2$

B.  $2 \times 9 = 9 \times 2$

C.  $(2 \times 9) + (2 \times 5) = 2 \times (9 + 5)$

D.  $(2 \times 9) \times 5 = 2 \times (9 \times 5)$

8) A.  $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$

B.  $5 \times 6 = 6 \times 5$

C.  $(5 \times 6) \times 7 = 5 \times (6 \times 7)$

D.  $5 \times 1 = 5$

9) A.  $10 \times (5 \times 7) = (10 \times 5) \times 7$

B.  $10 \times (5 + 7) = (10 \times 5) + (10 \times 7)$

C.  $1 \times 10 = 10$

D.  $10 \times 5 = 5 \times 10$

10) A.  $1 \times 5 = 5$

B.  $5 \times (2 + 3) = (5 \times 2) + (5 \times 3)$

C.  $5 \times 2 = 2 \times 5$

D.  $5 \times (2 \times 3) = (5 \times 2) \times 3$

11) A.  $(4 \times 6) \times 8 = 4 \times (6 \times 8)$

B.  $(4 \times 6) + (4 \times 8) = 4 \times (6 + 8)$

C.  $4 \times 6 = 6 \times 4$

D.  $4 \times 1 = 4$

12) A.  $4 \times 10 = 10 \times 4$

B.  $(4 \times 10) \times 1 = 4 \times (10 \times 1)$

C.  $(4 \times 10) + (4 \times 1) = 4 \times (10 + 1)$

D.  $4 \times 1 = 4$

1. \_\_\_\_\_

2. \_\_\_\_\_

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4. \_\_\_\_\_

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6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



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- 1) A.  $0 \times 1 = 0$   
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 C.  $(0 \times 10) \times 7 = 0 \times (10 \times 7)$   
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 B.  $8 \times 4 = 4 \times 8$   
 C.  $(8 \times 4) \times 7 = 8 \times (4 \times 7)$   
 D.  $8 \times 1 = 8$

1.   **A**  

2.   **D**  

- 3) A.  $8 \times 5 = 5 \times 8$   
 B.  $8 \times (5 \times 4) = (8 \times 5) \times 4$   
 C.  $1 \times 8 = 8$   
 D.  $8 \times (5 + 4) = (8 \times 5) + (8 \times 4)$
- 4) A.  $10 \times 9 = 9 \times 10$   
 B.  $10 \times (9 + 5) = (10 \times 9) + (10 \times 5)$   
 C.  $1 \times 10 = 10$   
 D.  $10 \times (9 \times 5) = (10 \times 9) \times 5$

3.   **C**  

4.   **C**  

5.   **D**  

6.   **C**  

- 5) A.  $3 \times 10 = 10 \times 3$   
 B.  $3 \times (10 \times 2) = (3 \times 10) \times 2$   
 C.  $3 \times (10 + 2) = (3 \times 10) + (3 \times 2)$   
 D.  $1 \times 3 = 3$
- 6) A.  $0 \times 10 = 10 \times 0$   
 B.  $0 \times (10 + 5) = (0 \times 10) + (0 \times 5)$   
 C.  $1 \times 0 = 0$   
 D.  $0 \times (10 \times 5) = (0 \times 10) \times 5$

7.   **A**  

8.   **D**  

9.   **C**  

10.   **A**  

- 7) A.  $2 \times 1 = 2$   
 B.  $2 \times 9 = 9 \times 2$   
 C.  $(2 \times 9) + (2 \times 5) = 2 \times (9 + 5)$   
 D.  $(2 \times 9) \times 5 = 2 \times (9 \times 5)$
- 8) A.  $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$   
 B.  $5 \times 6 = 6 \times 5$   
 C.  $(5 \times 6) \times 7 = 5 \times (6 \times 7)$   
 D.  $5 \times 1 = 5$

11.   **D**  

12.   **D**  

- 9) A.  $10 \times (5 \times 7) = (10 \times 5) \times 7$   
 B.  $10 \times (5 + 7) = (10 \times 5) + (10 \times 7)$   
 C.  $1 \times 10 = 10$   
 D.  $10 \times 5 = 5 \times 10$
- 10) A.  $1 \times 5 = 5$   
 B.  $5 \times (2 + 3) = (5 \times 2) + (5 \times 3)$   
 C.  $5 \times 2 = 2 \times 5$   
 D.  $5 \times (2 \times 3) = (5 \times 2) \times 3$

- 11) A.  $(4 \times 6) \times 8 = 4 \times (6 \times 8)$   
 B.  $(4 \times 6) + (4 \times 8) = 4 \times (6 + 8)$   
 C.  $4 \times 6 = 6 \times 4$   
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 B.  $(4 \times 10) \times 1 = 4 \times (10 \times 1)$   
 C.  $(4 \times 10) + (4 \times 1) = 4 \times (10 + 1)$   
 D.  $4 \times 1 = 4$