



Determine which choice best shows the associative property of multiplication.

Answers

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

- 2) A. $1 \times 9 = 9$
 B. $9 \times 0 = 0 \times 9$
 C. $9 \times (0 + 7) = (9 \times 0) + (9 \times 7)$
 D. $9 \times (0 \times 7) = (9 \times 0) \times 7$

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

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

- 5) A. $4 \times (7 \times 3) = (4 \times 7) \times 3$
 B. $1 \times 4 = 4$
 C. $4 \times 7 = 7 \times 4$
 D. $4 \times (7 + 3) = (4 \times 7) + (4 \times 3)$

- 6) A. $8 \times 1 = 8$
 B. $8 \times 0 = 0 \times 8$
 C. $(8 \times 0) \times 9 = 8 \times (0 \times 9)$
 D. $(8 \times 0) + (8 \times 9) = 8 \times (0 + 9)$

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

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

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

- 10) A. $0 \times (2 \times 7) = (0 \times 2) \times 7$
 B. $0 \times (2 + 7) = (0 \times 2) + (0 \times 7)$
 C. $1 \times 0 = 0$
 D. $0 \times 2 = 2 \times 0$

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

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

1. _____
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1. **D**
 2. **D**
 3. **C**
 4. **C**
 5. **A**
 6. **C**
 7. **C**
 8. **D**
 9. **D**
 10. **A**
 11. **C**
 12. **C**