Finding Identity Property of Multiplication

Name: _____

Determine which choice best shows the identity property of multiplication.

Answers

1) A. $(8 \times 0) + (8 \times 2) = 8 \times (0 + 2)$
   B. $8 \times 1 = 8$
   C. $(8 \times 0) \times 2 = 8 \times (0 \times 2)$
   D. $8 \times 0 = 0 \times 8$

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

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

4) A. $10 \times 2 = 2 \times 10$
   B. $10 \times (2 + 1) = (10 \times 2) + (10 \times 1)$
   C. $10 \times (2 \times 1) = (10 \times 2) \times 1$
   D. $1 \times 10 = 10$

5) A. $(6 \times 4) \times 0 = 6 \times (4 \times 0)$
   B. $(6 \times 4) + (6 \times 0) = 6 \times (4 + 0)$
   C. $6 \times 4 = 4 \times 6$
   D. $6 \times 1 = 6$

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

7) A. $10 \times 3 = 3 \times 10$
   B. $10 \times 1 = 10$
   C. $(10 \times 3) + (10 \times 6) = 10 \times (3 + 6)$
   D. $(10 \times 3) \times 6 = 10 \times (3 \times 6)$

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

9) A. $8 \times 7 = 7 \times 8$
   B. $(8 \times 7) + (8 \times 3) = 8 \times (7 + 3)$
   C. $8 \times 1 = 8$
   D. $(8 \times 7) \times 3 = 8 \times (7 \times 3)$

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

11) A. $4 \times (5 + 8) = (4 \times 5) + (4 \times 8)$
    B. $4 \times (5 \times 8) = (4 \times 5) \times 8$
    C. $1 \times 4 = 4$
    D. $4 \times 5 = 5 \times 4$

12) A. $(3 \times 6) \times 8 = 3 \times (6 \times 8)$
    B. $3 \times 6 = 6 \times 3$
    C. $3 \times 1 = 3$
    D. $(3 \times 6) + (3 \times 8) = 3 \times (6 + 8)$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Math

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Name: **Answer Key**

Determine which choice best shows the identity property of multiplication.

1)
A. $(8 \times 0) + (8 \times 2) = 8 \times (0 + 2)$
B. $8 \times 1 = 8$
C. $(8 \times 0) \times 2 = 8 \times (0 \times 2)$
D. $8 \times 0 = 0 \times 8$

2)
A. $(8 \times 10) \times 4 = 8 \times (10 \times 4)$
B. $8 \times 1 = 8$
C. $8 \times 10 = 10 \times 8$
D. $(8 \times 10) + (8 \times 4) = 8 \times (10 + 4)$

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

4)
A. $10 \times 2 = 2 \times 10$
B. $10 \times (2 + 1) = (10 \times 2) + (10 \times 1)$
C. $10 \times (2 \times 1) = (10 \times 2) \times 1$
D. $1 \times 10 = 10$

5)
A. $(6 \times 4) \times 0 = 6 \times (4 \times 0)$
B. $(6 \times 4) + (6 \times 0) = 6 \times (4 + 0)$
C. $6 \times 4 = 4 \times 6$
D. $6 \times 1 = 6$

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

7)
A. $10 \times 3 = 3 \times 10$
B. $10 \times 1 = 10$
C. $(10 \times 3) + (10 \times 6) = 10 \times (3 + 6)$
D. $(10 \times 3) \times 6 = 10 \times (3 \times 6)$

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

9)
A. $8 \times 7 = 7 \times 8$
B. $(8 \times 7) + (8 \times 3) = 8 \times (7 + 3)$
C. $8 \times 1 = 8$
D. $(8 \times 7) \times 3 = 8 \times (7 \times 3)$

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

11)
A. $4 \times (5 + 8) = (4 \times 5) + (4 \times 8)$
B. $4 \times (5 \times 8) = (4 \times 5) \times 8$
C. $1 \times 4 = 4$
D. $4 \times 5 = 5 \times 4$

12)
A. $(3 \times 6) \times 8 = 3 \times (6 \times 8)$
B. $3 \times 6 = 6 \times 3$
C. $3 \times 1 = 3$
D. $(3 \times 6) + (3 \times 8) = 3 \times (6 + 8)$

Answers

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

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								