Finding Identity Property of Multiplication

Name:

Determine which choice best shows the identity property of multiplication.

1) A. 2 × 6 = 6 × 2
B. (2 × 6) × 10 = 2 × (6 × 10)
C. (2 × 6) + (2 × 10) = 2 × (6 + 10)
D. 2 × 1 = 2

2) A. 4 × (3 + 1) = (4 × 3) + (4 × 1)
B. 1 × 4 = 4
C. 4 × 3 = 3 × 4
D. 4 × (3 × 1) = (4 × 3) × 1

3) A. 2 × 1 = 1 × 2
B. 2 × (1 × 8) = (2 × 1) × 8
C. 2 × (1 + 8) = (2 × 1) + (2 × 8)
D. 1 × 2 = 2

4) A. 3 × 5 = 5 × 3
B. 3 × (5 × 7) = (3 × 5) × 7
C. 1 × 3 = 3
D. 3 × (5 + 7) = (3 × 5) + (3 × 7)

5) A. 0 × (2 + 7) = (0 × 2) + (0 × 7)
B. 0 × 2 = 2 × 0
C. 0 × (2 × 7) = (0 × 2) × 7
D. 1 × 0 = 0

6) A. 1 × 9 = 9
B. 9 × 1 = 1 × 9
C. 9 × (1 × 10) = (9 × 1) × 10
D. 9 × (1 + 10) = (9 × 1) + (9 × 10)

7) A. 10 × (6 + 1) = (10 × 6) + (10 × 1)
B. 10 × (6 × 1) = (10 × 6) × 1
C. 1 × 10 = 10
D. 10 × 6 = 6 × 10

8) A. 0 × 8 = 8 × 0
B. (0 × 8) × 6 = 0 × (8 × 6)
C. 0 × 1 = 0
D. (0 × 8) + (0 × 6) = 0 × (8 + 6)

9) A. (10 × 6) + (10 × 4) = 10 × (6 + 4)
B. (10 × 6) × 4 = 10 × (6 × 4)
C. 10 × 1 = 10
D. 10 × 6 = 6 × 10

10) A. 10 × 4 = 4 × 10
B. 1 × 10 = 10
C. 10 × (4 × 7) = (10 × 4) × 7
D. 10 × (4 + 7) = (10 × 4) + (10 × 7)

11) A. (5 × 9) + (5 × 0) = 5 × (9 + 0)
B. 5 × 9 = 9 × 5
C. (5 × 9) × 0 = 5 × (9 × 0)
D. 5 × 1 = 5

12) A. 8 × (2 + 7) = (8 × 2) + (8 × 7)
B. 8 × 2 = 2 × 8
C. 1 × 8 = 8
D. 8 × (2 × 7) = (8 × 2) × 7

Answers

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

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

Finding Identity Property of Multiplication Name: **Answer Key**

Determine which choice best shows the identity property of multiplication.

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

2) A. $4 \times (3 + 1) = (4 \times 3) + (4 \times 1)$
B. $1 \times 4 = 4$
C. $4 \times 3 = 3 \times 4$
D. $4 \times (3 \times 1) = (4 \times 3) \times 1$

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

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

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

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

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

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

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

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

11) A. $(5 \times 9) + (5 \times 0) = 5 \times (9 + 0)$
B. $5 \times 9 = 9 \times 5$
C. $(5 \times 9) \times 0 = 5 \times (9 \times 0)$
D. $5 \times 1 = 5$

12) A. $8 \times (2 + 7) = (8 \times 2) + (8 \times 7)$
B. $8 \times 2 = 2 \times 8$
C. $1 \times 8 = 8$
D. $8 \times (2 \times 7) = (8 \times 2) \times 7$

Answers

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

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