Finding Associative Property of Multiplication

Name:

Determine which choice best shows the associative property of multiplication.

1) A. 10 × 1 = 10
B. 10 × 5 = 5 × 10
C. (10 × 5) × 2 = 10 × (5 × 2)
D. (10 × 5) + (10 × 2) = 10 × (5 + 2)

2) A. 1 × 5 = 5
B. 5 × 0 = 0 × 5
C. 5 × (0 + 10) = (5 × 0) + (5 × 10)
D. 5 × (0 × 10) = (5 × 0) × 10

3) A. 1 × (2 × 9) = (1 × 2) × 9
B. 1 × 1 = 1
C. 1 × 2 = 2 × 1
D. 1 × (2 + 9) = (1 × 2) + (1 × 9)

4) A. 7 × 4 = 4 × 7
B. (7 × 4) × 0 = 7 × (4 × 0)
C. 7 × 1 = 7
D. (7 × 4) + (7 × 0) = 7 × (4 + 0)

5) A. 3 × 9 = 9 × 3
B. 1 × 3 = 3
C. 3 × (9 + 4) = (3 × 9) + (3 × 4)
D. 3 × (9 × 4) = (3 × 9) × 4

6) A. (3 × 4) × 6 = 3 × (4 × 6)
B. 3 × 4 = 4 × 3
C. (3 × 4) + (3 × 6) = 3 × (4 + 6)
D. 3 × 1 = 3

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

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

9) A. (10 × 6) × 5 = 10 × (6 × 5)
B. 10 × 6 = 6 × 10
C. 10 × 1 = 10
D. (10 × 6) + (10 × 5) = 10 × (6 + 5)

10) A. 7 × (2 + 6) = (7 × 2) + (7 × 6)
B. 7 × (2 × 6) = (7 × 2) × 6
C. 7 × 2 = 2 × 7
D. 1 × 7 = 7

11) A. 4 × 1 = 4
B. (4 × 3) × 8 = 4 × (3 × 8)
C. 4 × 3 = 3 × 4
D. (4 × 3) + (4 × 8) = 4 × (3 + 8)

12) A. 10 × 3 = 3 × 10
B. 10 × (3 + 1) = (10 × 3) + (10 × 1)
C. 10 × (3 × 1) = (10 × 3) × 1
D. 1 × 10 = 10

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 Associative Property of Multiplication Name: **Answer Key**

Determine which choice best shows the associative property of multiplication.

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

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

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

4) A. $7 \times 4 = 4 \times 7$
B. $(7 \times 4) \times 0 = 7 \times (4 \times 0)$
C. $7 \times 1 = 7$
D. $(7 \times 4) + (7 \times 0) = 7 \times (4 + 0)$

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

6) A. $(3 \times 4) \times 6 = 3 \times (4 \times 6)$
B. $3 \times 4 = 4 \times 3$
C. $(3 \times 4) + (3 \times 6) = 3 \times (4 + 6)$
D. $3 \times 1 = 3$

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

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

9) A. $(10 \times 6) \times 5 = 10 \times (6 \times 5)$
B. $10 \times 6 = 6 \times 10$
C. $10 \times 1 = 10$
D. $(10 \times 6) + (10 \times 5) = 10 \times (6 + 5)$

10) A. $7 \times (2 + 6) = (7 \times 2) + (7 \times 6)$
B. $7 \times (2 \times 6) = (7 \times 2) \times 6$
C. $7 \times 2 = 2 \times 7$
D. $1 \times 7 = 7$

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

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

Answers

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

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