# Finding Identity Property of Multiplication

Name: _____

**Determine which choice best shows the identity property of multiplication.**

1) A. $4 \times (2 + 5) = (4 \times 2) + (4 \times 5)$
   B. $4 \times 2 = 2 \times 4$
   C. $4 \times (2 \times 5) = (4 \times 2) \times 5$
   D. $1 \times 4 = 4$

2) A. $0 \times (9 \times 3) = (0 \times 9) \times 3$
   B. $0 \times (9 + 3) = (0 \times 9) + (0 \times 3)$
   C. $1 \times 0 = 0$
   D. $0 \times 9 = 9 \times 0$

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

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

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

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

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

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

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

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

11) A. $4 \times (8 \times 9) = (4 \times 8) \times 9$
    B. $4 \times 8 = 8 \times 4$
    C. $4 \times (8 + 9) = (4 \times 8) + (4 \times 9)$
    D. $1 \times 4 = 4$

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

**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 | | | | | | | | |

**Determine which choice best shows the identity property of multiplication.**

**1)** A. $4 \times (2 + 5) = (4 \times 2) + (4 \times 5)$
B. $4 \times 2 = 2 \times 4$
C. $4 \times (2 \times 5) = (4 \times 2) \times 5$
D. $1 \times 4 = 4$

**2)** A. $0 \times (9 \times 3) = (0 \times 9) \times 3$
B. $0 \times (9 + 3) = (0 \times 9) + (0 \times 3)$
C. $1 \times 0 = 0$
D. $0 \times 9 = 9 \times 0$

1. **D**

2. **C**

3. **B**

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

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

4. **D**

5. **A**

6. **A**

**5)** A. $1 \times 5 = 5$
B. $5 \times (7 \times 10) = (5 \times 7) \times 10$
C. $5 \times (7 + 10) = (5 \times 7) + (5 \times 10)$
D. $5 \times 7 = 7 \times 5$

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

7. **D**

8. **B**

9. **C**

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

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

10. **A**

11. **D**

12. **B**

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

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

**11)** A. $4 \times (8 \times 9) = (4 \times 8) \times 9$
B. $4 \times 8 = 8 \times 4$
C. $4 \times (8 + 9) = (4 \times 8) + (4 \times 9)$
D. $1 \times 4 = 4$

**12)** A. $1 \times 5 = 5 \times 1$
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| 1-10 | 92 | 83 | 75 | 67 | 58 | 50 | 42 | 33 | 25 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|
| 11-12 | 8 | 0 | | | | | | | | |