



Determine which choice best shows the associative property of multiplication.

Answers

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

- 2) A. $(7 \times 3) + (7 \times 2) = 7 \times (3 + 2)$
 B. $(7 \times 3) \times 2 = 7 \times (3 \times 2)$
 C. $7 \times 1 = 7$
 D. $7 \times 3 = 3 \times 7$

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

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

- 5) A. $2 \times (3 \times 5) = (2 \times 3) \times 5$
 B. $2 \times 3 = 3 \times 2$
 C. $2 \times (3 + 5) = (2 \times 3) + (2 \times 5)$
 D. $1 \times 2 = 2$

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

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

- 8) A. $2 \times 1 = 2$
 B. $2 \times 6 = 6 \times 2$
 C. $(2 \times 6) \times 0 = 2 \times (6 \times 0)$
 D. $(2 \times 6) + (2 \times 0) = 2 \times (6 + 0)$

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

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

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

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

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Answers

- 1) A. $7 \times 1 = 7$
 B. $7 \times 2 = 2 \times 7$
 C. $(7 \times 2) \times 4 = 7 \times (2 \times 4)$
 D. $(7 \times 2) + (7 \times 4) = 7 \times (2 + 4)$
- 2) A. $(7 \times 3) + (7 \times 2) = 7 \times (3 + 2)$
 B. $(7 \times 3) \times 2 = 7 \times (3 \times 2)$
 C. $7 \times 1 = 7$
 D. $7 \times 3 = 3 \times 7$

1. **C**

2. **B**

- 3) A. $(2 \times 10) \times 8 = 2 \times (10 \times 8)$
 B. $(2 \times 10) + (2 \times 8) = 2 \times (10 + 8)$
 C. $2 \times 1 = 2$
 D. $2 \times 10 = 10 \times 2$
- 4) A. $(9 \times 4) \times 5 = 9 \times (4 \times 5)$
 B. $(9 \times 4) + (9 \times 5) = 9 \times (4 + 5)$
 C. $9 \times 1 = 9$
 D. $9 \times 4 = 4 \times 9$

3. **A**

4. **A**

- 5) A. $2 \times (3 \times 5) = (2 \times 3) \times 5$
 B. $2 \times 3 = 3 \times 2$
 C. $2 \times (3 + 5) = (2 \times 3) + (2 \times 5)$
 D. $1 \times 2 = 2$
- 6) A. $9 \times (3 + 7) = (9 \times 3) + (9 \times 7)$
 B. $9 \times (3 \times 7) = (9 \times 3) \times 7$
 C. $9 \times 3 = 3 \times 9$
 D. $1 \times 9 = 9$

5. **A**

6. **B**

- 7) A. $5 \times (4 + 6) = (5 \times 4) + (5 \times 6)$
 B. $1 \times 5 = 5$
 C. $5 \times (4 \times 6) = (5 \times 4) \times 6$
 D. $5 \times 4 = 4 \times 5$
- 8) A. $2 \times 1 = 2$
 B. $2 \times 6 = 6 \times 2$
 C. $(2 \times 6) \times 0 = 2 \times (6 \times 0)$
 D. $(2 \times 6) + (2 \times 0) = 2 \times (6 + 0)$

7. **C**

8. **C**

9. **D**

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

10. **C**

11. **C**

12. **A**

- 11) A. $7 \times 1 = 7$
 B. $7 \times 5 = 5 \times 7$
 C. $(7 \times 5) \times 4 = 7 \times (5 \times 4)$
 D. $(7 \times 5) + (7 \times 4) = 7 \times (5 + 4)$
- 12) A. $9 \times (5 \times 4) = (9 \times 5) \times 4$
 B. $9 \times 5 = 5 \times 9$
 C. $9 \times (5 + 4) = (9 \times 5) + (9 \times 4)$
 D. $1 \times 9 = 9$



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

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

- 5) A. $3 \times 10 = 10 \times 3$
 B. $1 \times 3 = 3$
 C. $3 \times (10 + 2) = (3 \times 10) + (3 \times 2)$
 D. $3 \times (10 \times 2) = (3 \times 10) \times 2$

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

- 7) A. $(2 \times 9) \times 5 = 2 \times (9 \times 5)$
 B. $2 \times 9 = 9 \times 2$
 C. $(2 \times 9) + (2 \times 5) = 2 \times (9 + 5)$
 D. $2 \times 1 = 2$

- 8) A. $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$
 B. $5 \times 6 = 6 \times 5$
 C. $5 \times 1 = 5$
 D. $(5 \times 6) \times 7 = 5 \times (6 \times 7)$

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

- 10) A. $5 \times (2 \times 3) = (5 \times 2) \times 3$
 B. $5 \times (2 + 3) = (5 \times 2) + (5 \times 3)$
 C. $5 \times 2 = 2 \times 5$
 D. $1 \times 5 = 5$

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

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

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Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

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

- 5) A. $3 \times 10 = 10 \times 3$
 B. $1 \times 3 = 3$
 C. $3 \times (10 + 2) = (3 \times 10) + (3 \times 2)$
 D. $3 \times (10 \times 2) = (3 \times 10) \times 2$

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

- 7) A. $(2 \times 9) \times 5 = 2 \times (9 \times 5)$
 B. $2 \times 9 = 9 \times 2$
 C. $(2 \times 9) + (2 \times 5) = 2 \times (9 + 5)$
 D. $2 \times 1 = 2$

- 8) A. $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$
 B. $5 \times 6 = 6 \times 5$
 C. $5 \times 1 = 5$
 D. $(5 \times 6) \times 7 = 5 \times (6 \times 7)$

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

- 10) A. $5 \times (2 \times 3) = (5 \times 2) \times 3$
 B. $5 \times (2 + 3) = (5 \times 2) + (5 \times 3)$
 C. $5 \times 2 = 2 \times 5$
 D. $1 \times 5 = 5$

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

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

1. **A**

2. **D**

3. **C**

4. **C**

5. **D**

6. **C**

7. **A**

8. **D**

9. **C**

10. **A**

11. **D**

12. **D**



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

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

- 5) A. $2 \times 1 = 2$
 B. $(2 \times 5) + (2 \times 8) = 2 \times (5 + 8)$
 C. $(2 \times 5) \times 8 = 2 \times (5 \times 8)$
 D. $2 \times 5 = 5 \times 2$

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

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

- 8) A. $3 \times (10 \times 2) = (3 \times 10) \times 2$
 B. $1 \times 3 = 3$
 C. $3 \times 10 = 10 \times 3$
 D. $3 \times (10 + 2) = (3 \times 10) + (3 \times 2)$

- 9) A. $7 \times (0 \times 3) = (7 \times 0) \times 3$
 B. $1 \times 7 = 7$
 C. $7 \times 0 = 0 \times 7$
 D. $7 \times (0 + 3) = (7 \times 0) + (7 \times 3)$

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

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

- 12) A. $4 \times (3 + 0) = (4 \times 3) + (4 \times 0)$
 B. $1 \times 4 = 4$
 C. $4 \times 3 = 3 \times 4$
 D. $4 \times (3 \times 0) = (4 \times 3) \times 0$

1. _____
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Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

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

- 5) A. $2 \times 1 = 2$
 B. $(2 \times 5) + (2 \times 8) = 2 \times (5 + 8)$
 C. $(2 \times 5) \times 8 = 2 \times (5 \times 8)$
 D. $2 \times 5 = 5 \times 2$

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

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

- 8) A. $3 \times (10 \times 2) = (3 \times 10) \times 2$
 B. $1 \times 3 = 3$
 C. $3 \times 10 = 10 \times 3$
 D. $3 \times (10 + 2) = (3 \times 10) + (3 \times 2)$

- 9) A. $7 \times (0 \times 3) = (7 \times 0) \times 3$
 B. $1 \times 7 = 7$
 C. $7 \times 0 = 0 \times 7$
 D. $7 \times (0 + 3) = (7 \times 0) + (7 \times 3)$

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

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

- 12) A. $4 \times (3 + 0) = (4 \times 3) + (4 \times 0)$
 B. $1 \times 4 = 4$
 C. $4 \times 3 = 3 \times 4$
 D. $4 \times (3 \times 0) = (4 \times 3) \times 0$

1. **D**

2. **B**

3. **C**

4. **C**

5. **C**

6. **C**

7. **C**

8. **A**

9. **A**

10. **A**

11. **C**

12. **D**



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

- 4) A. $3 \times 5 = 5 \times 3$
 B. $1 \times 3 = 3$
 C. $3 \times (5 \times 7) = (3 \times 5) \times 7$
 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. $1 \times 0 = 0$
 D. $0 \times (2 \times 7) = (0 \times 2) \times 7$

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

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

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

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

- 10) A. $10 \times 4 = 4 \times 10$
 B. $10 \times (4 \times 7) = (10 \times 4) \times 7$
 C. $1 \times 10 = 10$
 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. $5 \times 1 = 5$
 D. $(5 \times 9) \times 0 = 5 \times (9 \times 0)$

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

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Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

- 4) A. $3 \times 5 = 5 \times 3$
 B. $1 \times 3 = 3$
 C. $3 \times (5 \times 7) = (3 \times 5) \times 7$
 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. $1 \times 0 = 0$
 D. $0 \times (2 \times 7) = (0 \times 2) \times 7$

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

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

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

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

- 10) A. $10 \times 4 = 4 \times 10$
 B. $10 \times (4 \times 7) = (10 \times 4) \times 7$
 C. $1 \times 10 = 10$
 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. $5 \times 1 = 5$
 D. $(5 \times 9) \times 0 = 5 \times (9 \times 0)$

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

1. **D**

2. **B**

3. **D**

4. **C**

5. **D**

6. **A**

7. **C**

8. **C**

9. **C**

10. **B**

11. **D**

12. **C**



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

- 4) A. $9 \times 10 = 10 \times 9$
 B. $(9 \times 10) \times 2 = 9 \times (10 \times 2)$
 C. $(9 \times 10) + (9 \times 2) = 9 \times (10 + 2)$
 D. $9 \times 1 = 9$

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

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

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

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

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

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

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

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

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



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

- 4) A. $9 \times 10 = 10 \times 9$
 B. $(9 \times 10) \times 2 = 9 \times (10 \times 2)$
 C. $(9 \times 10) + (9 \times 2) = 9 \times (10 + 2)$
 D. $9 \times 1 = 9$

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

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

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

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

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

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

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

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

1. **C**

2. **B**

3. **A**

4. **B**

5. **A**

6. **C**

7. **C**

8. **C**

9. **A**

10. **D**

11. **C**

12. **A**



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

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

- 5) A. $1 \times 0 = 0$
 B. $0 \times 10 = 10 \times 0$
 C. $0 \times (10 + 3) = (0 \times 10) + (0 \times 3)$
 D. $0 \times (10 \times 3) = (0 \times 10) \times 3$

- 6) A. $2 \times (5 \times 6) = (2 \times 5) \times 6$
 B. $1 \times 2 = 2$
 C. $2 \times (5 + 6) = (2 \times 5) + (2 \times 6)$
 D. $2 \times 5 = 5 \times 2$

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

- 8) A. $9 \times 0 = 0 \times 9$
 B. $1 \times 9 = 9$
 C. $9 \times (0 + 4) = (9 \times 0) + (9 \times 4)$
 D. $9 \times (0 \times 4) = (9 \times 0) \times 4$

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

- 10) A. $9 \times 7 = 7 \times 9$
 B. $(9 \times 7) \times 6 = 9 \times (7 \times 6)$
 C. $(9 \times 7) + (9 \times 6) = 9 \times (7 + 6)$
 D. $9 \times 1 = 9$

- 11) A. $8 \times 1 = 8$
 B. $(8 \times 7) \times 0 = 8 \times (7 \times 0)$
 C. $(8 \times 7) + (8 \times 0) = 8 \times (7 + 0)$
 D. $8 \times 7 = 7 \times 8$

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

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



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

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

- 5) A. $1 \times 0 = 0$
 B. $0 \times 10 = 10 \times 0$
 C. $0 \times (10 + 3) = (0 \times 10) + (0 \times 3)$
 D. $0 \times (10 \times 3) = (0 \times 10) \times 3$

- 6) A. $2 \times (5 \times 6) = (2 \times 5) \times 6$
 B. $1 \times 2 = 2$
 C. $2 \times (5 + 6) = (2 \times 5) + (2 \times 6)$
 D. $2 \times 5 = 5 \times 2$

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

- 8) A. $9 \times 0 = 0 \times 9$
 B. $1 \times 9 = 9$
 C. $9 \times (0 + 4) = (9 \times 0) + (9 \times 4)$
 D. $9 \times (0 \times 4) = (9 \times 0) \times 4$

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

- 10) A. $9 \times 7 = 7 \times 9$
 B. $(9 \times 7) \times 6 = 9 \times (7 \times 6)$
 C. $(9 \times 7) + (9 \times 6) = 9 \times (7 + 6)$
 D. $9 \times 1 = 9$

- 11) A. $8 \times 1 = 8$
 B. $(8 \times 7) \times 0 = 8 \times (7 \times 0)$
 C. $(8 \times 7) + (8 \times 0) = 8 \times (7 + 0)$
 D. $8 \times 7 = 7 \times 8$

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

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



Determine which choice best shows the associative property of multiplication.

Answers

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

- 2) A. $5 \times 6 = 6 \times 5$
 B. $1 \times 5 = 5$
 C. $5 \times (6 + 3) = (5 \times 6) + (5 \times 3)$
 D. $5 \times (6 \times 3) = (5 \times 6) \times 3$

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

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

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

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

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

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

- 9) A. $5 \times 6 = 6 \times 5$
 B. $5 \times 1 = 5$
 C. $(5 \times 6) \times 7 = 5 \times (6 \times 7)$
 D. $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$

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

- 11) A. $9 \times (4 \times 2) = (9 \times 4) \times 2$
 B. $9 \times 4 = 4 \times 9$
 C. $1 \times 9 = 9$
 D. $9 \times (4 + 2) = (9 \times 4) + (9 \times 2)$

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

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



Determine which choice best shows the associative property of multiplication.

Answers

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

- 2) A. $5 \times 6 = 6 \times 5$
 B. $1 \times 5 = 5$
 C. $5 \times (6 + 3) = (5 \times 6) + (5 \times 3)$
 D. $5 \times (6 \times 3) = (5 \times 6) \times 3$

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

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

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

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

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

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

- 9) A. $5 \times 6 = 6 \times 5$
 B. $5 \times 1 = 5$
 C. $(5 \times 6) \times 7 = 5 \times (6 \times 7)$
 D. $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$

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

- 11) A. $9 \times (4 \times 2) = (9 \times 4) \times 2$
 B. $9 \times 4 = 4 \times 9$
 C. $1 \times 9 = 9$
 D. $9 \times (4 + 2) = (9 \times 4) + (9 \times 2)$

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

1. **D**

2. **D**

3. **D**

4. **B**

5. **B**

6. **C**

7. **B**

8. **A**

9. **C**

10. **B**

11. **A**

12. **B**



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

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

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

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

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

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

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

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

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

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

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



Determine which choice best shows the associative property of multiplication.

Answers

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

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

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

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

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

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

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

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

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

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

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

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

1. **C**

2. **D**

3. **D**

4. **B**

5. **A**

6. **B**

7. **B**

8. **D**

9. **C**

10. **C**

11. **D**

12. **C**



Determine which choice best shows the associative property of multiplication.

Answers

- 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. $1 \times 10 = 10$

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



Determine which choice best shows the associative property of multiplication.

Answers

- 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. $1 \times 10 = 10$

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



Determine which choice best shows the associative property of multiplication.

Answers

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

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

- 3) A. $8 \times (6 + 2) = (8 \times 6) + (8 \times 2)$
 B. $8 \times 6 = 6 \times 8$
 C. $8 \times (6 \times 2) = (8 \times 6) \times 2$
 D. $1 \times 8 = 8$

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

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

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

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

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

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

- 10) A. $2 \times (5 \times 9) = (2 \times 5) \times 9$
 B. $2 \times 5 = 5 \times 2$
 C. $1 \times 2 = 2$
 D. $2 \times (5 + 9) = (2 \times 5) + (2 \times 9)$

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

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

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



Determine which choice best shows the associative property of multiplication.

Answers

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

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

- 3) A. $8 \times (6 + 2) = (8 \times 6) + (8 \times 2)$
 B. $8 \times 6 = 6 \times 8$
 C. $8 \times (6 \times 2) = (8 \times 6) \times 2$
 D. $1 \times 8 = 8$

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

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

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

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

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

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

- 10) A. $2 \times (5 \times 9) = (2 \times 5) \times 9$
 B. $2 \times 5 = 5 \times 2$
 C. $1 \times 2 = 2$
 D. $2 \times (5 + 9) = (2 \times 5) + (2 \times 9)$

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

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

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