

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

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|---|--|
| 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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- 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. $1 \times 9 = 9$

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

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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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- 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**

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- 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. $4 \times (3 \times 0) = (4 \times 3) \times 0$

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- 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**

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- 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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- 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**

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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. _____

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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**



Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.										Respuestas
1)	A. $10 \times 8 = 8 \times 10$									1. _____
	B. $10 \times (8 + 1) = (10 \times 8) + (10 \times 1)$									2. _____
	C. $10 \times (8 \times 1) = (10 \times 8) \times 1$									3. _____
	D. $1 \times 10 = 10$									4. _____
2)	A. $2 \times 1 = 2$									5. _____
	B. $(2 \times 1) + (2 \times 6) = 2 \times (1 + 6)$									6. _____
	C. $(2 \times 1) \times 6 = 2 \times (1 \times 6)$									7. _____
	D. $2 \times 1 = 1 \times 2$									8. _____
3)	A. $8 \times 0 = 0 \times 8$									9. _____
	B. $(8 \times 0) \times 1 = 8 \times (0 \times 1)$									10. _____
	C. $(8 \times 0) + (8 \times 1) = 8 \times (0 + 1)$									11. _____
	D. $8 \times 1 = 8$									12. _____
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. $4 \times 1 = 4$									

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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**

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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. _____

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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**



Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.				Respuestas
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. $0 \times (9 + 1) = (0 \times 9) + (0 \times 1)$	1. _____
				2. _____
				3. _____
				4. _____
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. $8 \times (3 \times 6) = (8 \times 3) \times 6$	5. _____
				6. _____
				7. _____
				8. _____
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. $1 \times 6 = 6$	9. _____
				10. _____
				11. _____
				12. _____

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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**

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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. _____
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7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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**

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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. _____

**Determinar cuál opción muestra mejor la propiedad asociativa de la multiplicación.****Respuestas**

- 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**