Finding Identity Property of Multiplication

Name:

Determine which choice best shows the identity property of multiplication.

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

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

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

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

5)
A. $6 \times 8 = 8 \times 6$
B. $(6 \times 8) \times 9 = 6 \times (8 \times 9)$
C. $6 \times 1 = 6$
D. $(6 \times 8) + (6 \times 9) = 6 \times (8 + 9)$

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

7)
A. $10 \times 5 = 5 \times 10$
B. $1 \times 10 = 10$
C. $10 \times (5 \times 3) = (10 \times 5) \times 3$
D. $10 \times (5 + 3) = (10 \times 5) + (10 \times 3)$

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

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

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

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

12)
A. $(4 \times 3) + (4 \times 2) = 4 \times (3 + 2)$
B. $(4 \times 3) \times 2 = 4 \times (3 \times 2)$
C. $4 \times 1 = 4$
D. $4 \times 3 = 3 \times 4$

Answers

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

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

Finding Identity Property of Multiplication

Name: **Answer Key**

Determine which choice best shows the identity property of multiplication.

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

2)
A. $1 \times 7 = 7$
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C. $7 \times (4 + 5) = (7 \times 4) + (7 \times 5)$
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3)
A. $8 \times (7 + 1) = (8 \times 7) + (8 \times 1)$
B. $1 \times 8 = 8$
C. $8 \times 7 = 7 \times 8$
D. $8 \times (7 \times 1) = (8 \times 7) \times 1$

4)
A. $4 \times (6 + 10) = (4 \times 6) + (4 \times 10)$
B. $1 \times 4 = 4$
C. $4 \times 6 = 6 \times 4$
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A. $6 \times 8 = 8 \times 6$
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A. $10 \times 5 = 5 \times 10$
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C. $10 \times (5 \times 3) = (10 \times 5) \times 3$
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8)
A. $0 \times 5 = 5 \times 0$
B. $1 \times 0 = 0$
C. $0 \times (5 + 4) = (0 \times 5) + (0 \times 4)$
D. $0 \times (5 \times 4) = (0 \times 5) \times 4$

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

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

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

12)
A. $(4 \times 3) + (4 \times 2) = 4 \times (3 + 2)$
B. $(4 \times 3) \times 2 = 4 \times (3 \times 2)$
C. $4 \times 1 = 4$
D. $4 \times 3 = 3 \times 4$

Answers

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

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