ALG-Wippich-Distributive property practice [Exam ID:163DCL

Exam not valid for Paper Pencil Test Sessions

1 **Which of the following number sentences illustrates the distributive property?**

A $8(4 + 8) = (8 + 4) + (8 + 8)$

B $8 + 4 = 4 + 8$

C $8(4 + 8) = 32 + 64$

D $8 + (4 + 8) = (8 + 4) + 8$

2 **Which of the following number sentences illustrates the distributive property?**

A $12(6 + 4) = (12 + 6) + (12 + 4)$

B $12 + 6 = 6 + 12$

C $12(6 + 4) = 72 + 48$

D $12 + (6 + 4) = (12 + 6) + 4$

3 **Which of the following number sentences illustrates the distributive property?**

A $9 + (10 + 8) = (9 + 10) + 8$

B $9 + 10 = 10 + 9$

C $9(10 + 8) = 90 + 72$

D $9(10 + 8) = (9 + 10) + (9 + 8)$

4 **Which of the following is an example of the distributive property?**

A $8(3 + 6) = 24 + 48$

B $(8 + 3) + 6 = (6 + 3) + 8$

C $8 \times 1 = 8$

D $8 \times 3 = 3 \times 8$

5 **Which equation shows the use of the distributive property?**

A $9 (2 + 4) = (9 \times 2) + (9 \times 4)$

B $12 (4 + 5) = 12 \times 4 + 5$

C $4 \times 5 \times 8 = 5 \times 4 \times 8$

D $7 \times (6 \times 4) = (7 \times 6) \times 4$

6 **Which of the following is an example of the distributive property?**

A $4 \times 6 = 6 \times 4$

B $(4 + 6) + 10 = (10 + 6) + 4$

C $4 \times 1 = 4$

D $4(6 + 10) = 24 + 40$

7 **Which equation shows the use of the distributive property?**

A $7 (2 + 8) = (7 \times 2) + (7 \times 8)$

B $16 (6 + 5) = 16 \times 6 + 5$

C $9 \times 2 \times 3 = 2 \times 9 \times 3$

D $4 \times (8 \times 4) = (4 \times 8) \times 4$

8 **Which indicates a correct application of the distributive property?**

A $a - (b + c) = (a - b) + c$

B $a(b + c) = (ab) + (ac)$

C $(a + b) + c = a + (b + c)$

D $(a + b) + c = c + (a + b)$

9 **Five students wrote the equations shown on their paper.**

A Seth
B Ernesto
C Jessica
D Beth
E Debbie

Seth	$10 \times 1 = 10$
Ernesto	$5 (8 + 6) = (5 \times 8) + (5 \times 6)$
Jessica	$7 \times 8 = 8 \times 7$
Beth	$(4 + 3) + 9 = 4 + (3 + 9)$
Debbie	$12 \times 0 = 0$

Which student's equation illustrates the distributive property?

10

Identify the equations that illustrate the distributive property.

$(9 \times 8) \times 11 = 9 \times (8 \times 11)$
$15 + 3 + 9 = 3 + 15 + 9$
$6 (8 + 5) = (6 \times 8) + (6 \times 5)$
$12 (7 + 4) = (12 \times 7) + (12 \times 4)$
$(7 + 14) + 4 = 7 + (14 + 4)$
$(8 \times 4) \times 3 = (4 \times 8) \times 3$

11

Evaluate the following:

3 (4 + 2) =

12

Select all equations that equal 24.

Use the distributive property or order of operations to solve.

4 (5 + 2)	3 (5 +3)	12 (1 + 3)
6 (1 + 3)	4 (4 + 2)	

13

Complete the math statement to correctly represent the distributive property.

$$5(2 + 3) = (5 \times 2 \ ) + (\ 5 \ \times 3)$$

14

Complete the math sentence below to correctly represent the distributive party.

$$a(b + c) = (a \ \times b) + (a \times c \ )$$

15

Use the distributive property to complete the math sentence below.

$$(2 \bullet 3) + (2 \bullet 4) = 2(\ )$$

16

Use the distributive property to complete the math sentence below.

$$6(4 + 2) = (6 \times 4) + (\ )$$

17 **Which equation shows the distributive property?**

A $256 \times 1 = 256$

B $5 \times 9 \times 4 = 4 \times 9 \times 5$

C $(8 \times 6) + (8 \times 7) = 8(6 + 7)$

D $(12 + 19) + 13 = 12 + (19 + 13)$

18 **Which equation shows the use of the distributive property?**

A $5 \times 7 \times 3 = 7 \times 5 \times 3$

B $6 \times (8 \times 4) = (6 \times 8) \times 4$

C $8 (3 + 8) = (8 \times 3) + (8 \times 8)$

D $13 (7 + 5) = 13 \times 7 + 5$

19 **Which of the following number sentences illustrates the distributive property?**

A $8 + (4 + 8) = (8 + 4) + 8$

B $8 + 4 = 4 + 8$

C $8(4 + 8) = 32 + 64$

D $8(4 + 8) = (8 + 4) + (8 + 8)$

20 **Which of the following number sentences illustrates the distributive property?**

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B $8(4 + 8) = 32 + 64$

C $8 + (4 + 8) = (8 + 4) + 8$

D $8 + 4 = 4 + 8$