

## Grade 6 Math: Distributive property (Equivalent Expression)

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This worksheet includes questions covering Common Core State Standards Math topic: 6.EE.3

Select the correct answer(s) from the given options:

1. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$2(3 + 6y)$$

- a)  $6 + 6y$
- b)  $6 + 12y$
- c)  $6y + 12$
- d)  $3 + 12y$

Answer: \_\_\_\_\_

2. Use the distributive property of operations and choose the correct equivalent expressions for the given expression.

$$16k + 24$$

- a)  $8(4k + 6)$
- b)  $4(4k + 8)$
- c)  $4(4k + 6)$
- d)  $8(2k + 3)$

Answer: \_\_\_\_\_

3. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$r + r + r + r$$

- a)  $5 + r$
- b)  $r + 4$
- c)  $5r$
- d)  $4r$

Answer: \_\_\_\_\_

4. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$6(3u + 4)$$

- a)  $12u + 18$
- b)  $12u + 24$
- c)  $18u + 24$
- d)  $18u + 10$

Answer: \_\_\_\_\_

5. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$5(6x - 4)$$

- a)  $30x - 9$
- b)  $6x - 4$
- c)  $30x - 20$
- d)  $30x - 4$

Answer: \_\_\_\_\_

6. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$15 - 21p$$

- a)  $5(3 - 7p)$
- b)  $3(5 - 7p)$
- c)  $15(5 - 7p)$
- d)  $3(5 - 21p)$

Answer: \_\_\_\_\_

7. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$r + 3 + 5r + 9$$

- a)  $4r + 12$
- b)  $6(r + 2)$
- c)  $6r + 9$
- d)  $3(2r + 3)$

Answer: \_\_\_\_\_

8. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$3m + 12$$

- a)  $3(m + 4)$
- b)  $3(m + 3)$

Answer: \_\_\_\_\_

9. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$6k + 14$$

- a)  $3(2k + 7)$
- b)  $2(3k + 7)$

Answer: \_\_\_\_\_

10. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$8k - 8 + 3k - 14$$

- a)  $11k - 6$
- b)  $5k - 6$
- c)  $11(k - 2)$
- d)  $11(k + 2)$

Answer: \_\_\_\_\_

11. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$6 + 3y + 4y + 5$$

- a)  $7y + 11$
- b)  $7y + 1$
- c)  $y + 11$
- d)  $11y + 7$

Answer: \_\_\_\_\_

12. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$s + s + s + s + s + s$$

- a)  $5 + s$
- b)  $6s$
- c)  $5s$
- d)  $6 + s$

Answer: \_\_\_\_\_

13. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$25t + 5$$

- a)  $25(t + 1)$
- b)  $5(5t + 1)$

Answer: \_\_\_\_\_

14. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$18q + 9$$

- a)  $2(9q + 1)$
- b)  $2(1q + 9)$

Answer: \_\_\_\_\_

15. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$8k + 28$$

- a)  $2(4k + 12)$
- b)  $4(2k + 7)$

Answer: \_\_\_\_\_

16. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$42p + 54$$

- a)  $6(7p + 9)$
- b)  $7(6p + 9)$

Answer: \_\_\_\_\_

17. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$5m + 4 - 3m + 8$$

- a)  $8m + 4$
- b)  $8m + 12$
- c)  $2(m + 6)$
- d)  $2m + 4$

Answer: \_\_\_\_\_

18. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$60 + 10n$$

- a)  $5(6 + 10n)$
- b)  $10(6 + n)$
- c)  $6(10 + n)$
- d)  $10(6 + 5n)$

Answer: \_\_\_\_\_

19. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$27s + 72$$

- a)  $9(3s + 7)$
- b)  $8(3s + 9)$
- c)  $3(9s + 8)$
- d)  $9(3s + 8)$

Answer: \_\_\_\_\_

20. Use the distributive property of operations and choose the correct equivalent expression for the given expression.

$$12 + 52q$$

- a)  $13(3 + 4q)$
- b)  $13(4 + 1q)$
- c)  $4(3 + 13q)$
- d)  $13(3 + 13q)$

Answer: \_\_\_\_\_