

Study Guide #10

*Gold Test
this Friday 2/1

Algebra Study Guide Name: _____

Simplify each expression.

front + back
→

1. $9(x - 6)$

2. $20 + 8d$

3. $30p + 5 - 14p + 8$

4. $4(5 + 6k)$

5. $15 + 5d$

6. $4x + 5(x + 6)$

7. $7(5m - 6)$

8. $4(6m - 5)$

9. $17x + 9 - 5x - 7$

10. $8(6 + y)$

11. $12m + 9j - 10m - 7j + 3m$

12. $16k + 2(4 + 5k) - 10k$

13. $8m + 3m + 12 + 2m - 8 - 8m$

14. $6y^2 + y + y + 13$

15. $r + r + 9r - 2$

(Back)

Identify the expression that is NOT equivalent to the one given.

16. $16y + 20$

- A. $4(4y + 5)$ B. $36y$ C. $20y + 9 - 4y + 11$ D. $5y + 28 - 8 + 7y + 4y$

17. $30 - 24w$

- A. $5(6 - 6w)$ B. $15 + 45w + 15 - 21w$ C. $6(5 - 4w)$ D. $15(2 - 9w)$

Use the chart in your notebook for help!

Determine which property of multiplication is shown (Associative, Identity, Distributive or Commutative).

- 1) $4 \times 1 = 4$
- 2) $(5 \times 7) \times 4 = 5 \times (7 \times 4)$
- 3) $10 \times 8 = 8 \times 10$
- 4) $6 \times 1 = 1 \times 6$
- 5) $4 \times (5 + 6) = (4 \times 5) + (4 \times 6)$
- 6) $6 \times (0 + 8) = (6 \times 0) + (6 \times 8)$
- 7) $(8 \times 3) \times 6 = 8 \times (3 \times 6)$
- 8) $7 \times (2 \times 3) = (7 \times 2) \times 3$
- 9) $8 \times 1 = 8$
- 10) $1 \times 1 = 1$

Answers

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

2