

Name: _____ Period: _____ Date: _____

7th grade math

Order of operations review

unit 2

Simplify each expression using the distributive property.

1. $4(6x + 4)$

3. $8(2c - 3)$

2. $6(2x + 3y + 5)$

4. $(-4d + 8)9$

Simplify each expression by combining like terms.

5. $x + 6x + 5 + 4$

8. $14z + 9 - 6z$

6. $14c + 19 + c - 12$

9. $5a - 6 + 5a$

7. $9g - 6 + 4g + 7$

10. $18d - 12 - 10d + 4$

Simplify each expression by using the distributive property, combining like terms, or both.

11. $3b - 4 + 12b$

14. $25t + 12 - 9 + 14t$

12. $3(2v + 9)$

15. $-10(12b - 9)$

13. $24p + 9 - 12p + 6$

16. $5(2q + 6) - 5q$

Simplify each numerical expression using the order of operations.

17. $12 + 13 \cdot 4$

19. $\frac{6(2)}{-3 - (5 - 4)}$

18. $(12 + 13) \cdot 4$

20. $32 - 9 \cdot 4 \div 2 - 8$

21. $\frac{2+3(4)}{3+-10}$

22. $5+|-6 \cdot 3|$

23. $2-3(5+6)$

24. $[5(4-8)]-(-10)$

Evaluate each variable expression.

25. $2a+b$ when $a=4$ and $b=-3$

26. $2x+4y-9$ when $x=6$ and $y=-2$

27. $|r-5s|$ when $r=12$ and $s=3$

28. $t+p$ when $t=3$ and $p=-8$

Match each expression with the appropriate property.

29. $(a+b)+c=c+(a+b)$

30. $(x \cdot y) \cdot z = x \cdot (y \cdot z)$

31. $3 \cdot 0 = 0$

32. $5(1) = 5$

a. Associative property

b. Identity property of multiplication

c. Commutative property

d. Multiplicative property of zero

33. Circle the mistake in the following order of operations problem.

$$8 - 6(3 + 2 \cdot 6)$$

$$2 \quad (3 + 12)$$

$$2 \quad (15)$$

$$30$$

34. Rework the problem correctly.

$$8 - 6(3 + 2 \cdot 6)$$