

Alg 1

Review Ch. 1.1-1.4

MCT 1.1-1.4 tomorrow

Quiz 1.3-1.4 today

Example 1

Write a verbal expression for $4x + 9$.

Example 2

Write an algebraic expression for *the difference of twelve and two times a number cubed*.

$$12 - 2n^3$$

Example 4

Evaluate the expression $3(9 - 5)^2 \div 8$.

$$3(4)^2 \div 8$$

$$3 \cdot 16 \div 8$$

$$6$$

Example 5

Evaluate the expression $(5m - 2n) \div p^2$ if $m = 8$, $n = 4$, $p = 2$.

$$(5 \cdot 8 - 2 \cdot 4) \div 2^2$$

$$(40 - 8) \div 4$$

$$8$$

Example 7

Use the Distributive Property to rewrite the expression $5(3 + 8)$. Then evaluate.

$$5 \cdot 3 + 5 \cdot 8$$

Example 8

Rewrite the expression $6(x + 4)$ using the Distributive Property. Then simplify.

$$15 + 40$$

$$55$$

$$6 \cdot x + 24$$

$$6x + 24$$

Example 9

Rewrite the expression $(3x - 2)(-5)$ using the Distributive Property. Then simplify.

$$-5(3x - 2)$$

$$-5 \cdot 3x - 5 \cdot -2$$

$$-15x + 10$$

Write an algebraic expression for each verbal expression.

1. six more than a number $n + 6$
2. twelve less than the product of three and a number $3n - 12$
3. four divided by the difference between a number and seven

$$\frac{12 - 3n}{n}$$

$$4 \div (n - 7)$$

$$\frac{4}{n - 7}$$

Evaluate each expression. Name the property used in each step.

7. $13 + (16 - 4^2)$

8. $\frac{2}{9}[9 \div (7 - 5)]$

9. $37 + 29 + 13 + 21$

$$13 + (16 - 16)$$

$$13 + 0$$

$$13$$

$$\frac{2}{9} [9 \div (2)]$$

$$\frac{2}{9} \cdot \left[\frac{9}{2} \right]$$

$$1$$

Rewrite each expression using the Distributive Property. Then simplify.

10. $4(x + 3)$

11. $(5p - 2)(-3)$

$$-15p + 6$$

