

Alg 1

Review Ch. 1.1-1.4

MCT 1.1-1.4 Monday

Quiz 1.3-1.4 today

Example 1

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

Sum of 4 times x and 9

Example 2

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

$$(12 - 2n^3)$$

Example 4

J

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 $(58 - 24) \div 2^2$ if
 $m = 8, n = 4, p = 2$.

$$(40 - 8) \div 2^2$$

$$32 \div 4$$

8

Example 7

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

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

$$\begin{array}{r} 15 \\ + 40 \\ \hline 55 \end{array}$$

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

$$6 \cdot x + 6 \cdot 4$$

$$6x + 24$$

Example 9

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

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 $4 \div (n-7)$ $\frac{4}{n-7}$

$$\cdot \frac{4}{(n-7)}$$

$$37 + 13 + 29 + 21 \text{ comm}$$

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

$$50 + 50$$

$$100$$

Sub

$$37 + 29 + 13 + 21$$

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

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

$$13 + (16 - 16)$$

Subs

$$13 + 0$$

add inv.

$$13$$

add ident

$$\frac{2}{9}[9 + 2]$$

$$\frac{2}{9}[11]$$

Subs

$$\frac{22}{9}$$

Subs

Rewrite each expression using the Distributive Property. Then simplify.

10. $4(x + 3)$

$$\begin{aligned} 4 \cdot x + 4 \cdot 3 \\ 4x + 12 \end{aligned}$$

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

$$\begin{aligned} -3(5p - 2) \\ -15p + 6 \end{aligned}$$

$$2(x+5) + 5(x+1)$$

$$\begin{aligned} 2x + 10 + 5x + 5 \\ 7x + 15 \end{aligned}$$

