

**Algebra Bellwork - September 30, 2011**

**Evaluate the expression**

$\frac{r}{-3s}$ , for  $r = -\frac{1}{8}$  and  $s = \frac{3}{4}$

**Simplify the expression**

$-(-5)^3$

**Check your work:**

25) -64

26) -87

27) 4

32) -1

33) 8

34) -25

35) 81

36) -81

40) -2

41) -4

42)  $\frac{11}{2}$  or  $5\frac{1}{2}$

43) 6

44) -11

45)  $\frac{64}{5}$  or  $12\frac{4}{5}$

Evaluate the expression

$$\frac{r}{-3s}, \text{ for } r = -\frac{1}{8} \text{ and } s = \frac{3}{4}$$

$$\frac{-\frac{1}{8}}{-3\left(\frac{3}{4}\right)}$$

$$-\frac{1}{8} \div -\frac{9}{4}$$
$$-\frac{1}{8} \cdot -\frac{4}{9}$$

$$\frac{1}{18}$$

Simplify the expression

$$-(-5)^3$$

$$-(5)(5)(5)$$
$$-125$$

$$-(-125)$$

$$125$$

**Evaluate** each expression for  $x = -12$  and  $y = 4$ .

25.  $xy - 4y$

26.  $2xy + 9$

$$(-12)(4) - 4(4)$$

$$-48 + 16$$

$$-64$$

$$\frac{1}{3}$$

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$$\begin{array}{r} 42 \quad 15 \quad 3 \\ \hline 5 \quad 7 \end{array}$$

$$\frac{1}{3} \div \frac{1}{6}$$
$$\frac{1}{3} \cdot \frac{6}{6}$$

$$\frac{1}{18}$$

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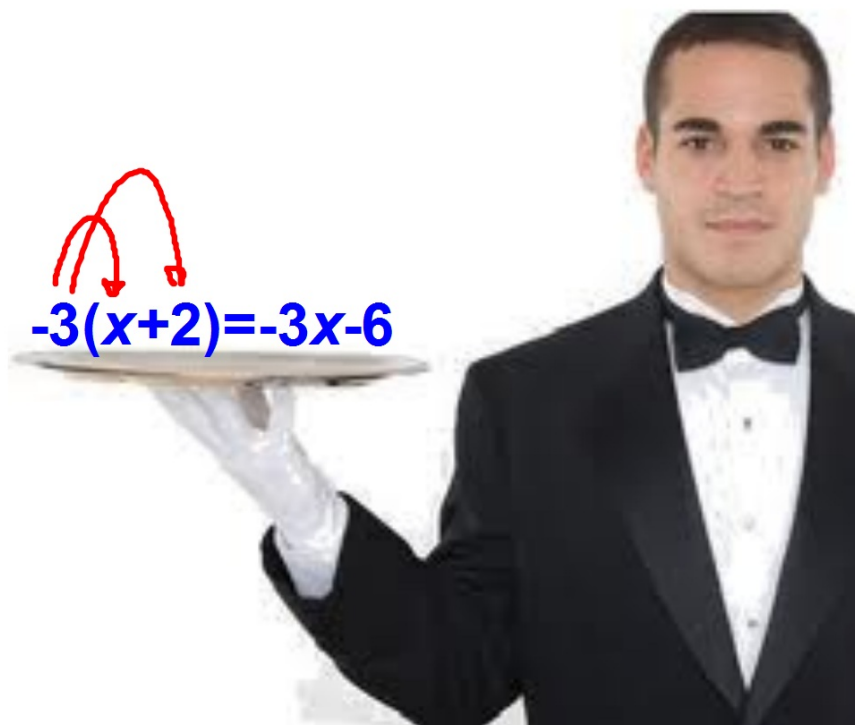
$$\frac{25}{5}$$

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$$\frac{32}{8}$$

$$\frac{5}{4}$$

Objective: Today we will simplify expressions using the **Distributive Property**.



Simplify each expression using the Distributive Property.

1.  $12(201)$   $12(200+1)$

2.  $51(13)$

3.  $11(499)$

4.  $8(306)$   $8(300+6)$

5.  $7(98)$

6.  $3(999)$   $3(1,000-1)$

7.  $41(502)$

8.  $24(1020)$

**Mental Math** Use the Distributive Property to find each price.

9.  $4(\$0.99)$

10.  $6(\$1.97)$

11.  $5(\$5.91)$

12.  $7(\$29.93)$

13. The school librarian got money to buy reference works on CDs. She bought three CDs for \$32.99 each. How much did she spend in all?

$\rightarrow 3(32.99)$

✓

9(12)

$$9(10+2)$$

$$90+18$$

$$108$$

$$6(.99)$$

$$6(1-0.01)$$

$$6-0.06$$

$$5.94$$

34(102)

$$34(100+2)$$

$$3400+68$$

$$3468$$

8(15)

$$8(10+5)$$

$$80+40$$

$$120$$

$$2(5x + 3)$$

$$10x + 6$$

$$(5x + 3)2$$

$$10x + 6$$

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