

September 27, 2011

**No Warm-up...
...Student Assessment instead**

Get out your homework:

Pg 78 #18-59 all

Pg 92 #21-46 all, due ~~Tuesday~~ ^{Wednesday}

$$59) 96 \div \left(-\frac{2}{3}\right)$$

$$= \frac{48}{\cancel{96}} \cdot \frac{-3}{\cancel{2}}$$

$$= -144$$

$$30) (10.2)(-0.5)$$

$$\begin{array}{r} 10.2 \\ \cdot 0.5 \\ \hline -5.35 \end{array}$$

$$37) \left(\frac{7}{8}\right)\left(-\frac{27}{12}\right) = \frac{-161}{96}$$

$$38) \frac{412.59}{-17}$$

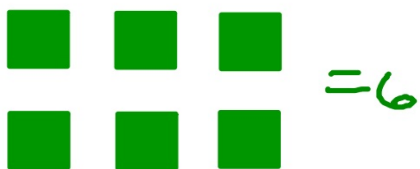
$$-17$$

$$= -24.27$$

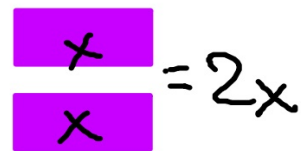
42 pts

9/27 - Multiplying/Dividing Expressions

$$2 \cdot 3$$



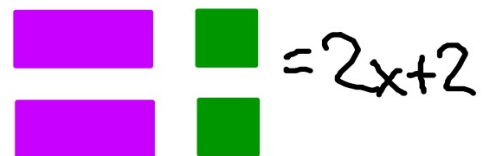
$$2 \cdot x$$



$$2 \cdot 2x$$






















$$2 \cdot (x + 1)$$

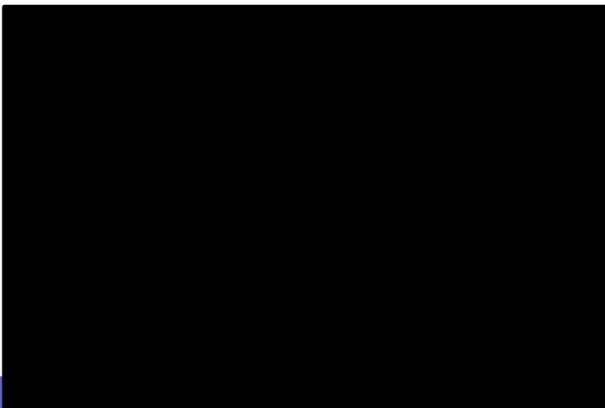


$$3(x+2)$$

$$2(3x+2)$$

| | | | | | | | | | | |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|--------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| $x+2$ |  |  |  | | $3x+2$ |  |  |  |  |  |
| $x+2$ |  |  |  | $3x+6$ | $3x+2$ |  |  |  |  |  |
| $x+2$ |  |  |  | | | | | | | |

$= 6x+4$



Distributive Property

$$a(b+c) = a \cdot b + a \cdot c$$

so...

$$\begin{array}{l} 2 \cdot (x+1) \\ = 2x+2 \end{array}$$

$$\begin{array}{l} 2(3x+2) \\ = 6x+4 \end{array}$$

Simplify using the distributive property:

$$\begin{array}{l} 3(2x-5) \\ = 6x - 15 \end{array}$$

$$\begin{array}{l} -2(x-3) \\ = -2x + 6 \end{array}$$

$$\begin{array}{l} 4(2x-3y) \\ = 8x - 12y \end{array}$$

$$\begin{array}{l} x(x+2) \\ = x^2 + 2x \end{array}$$

$$\begin{array}{l} 2x(x-3) \\ = 2x^2 - 6x \end{array}$$

$$\begin{array}{l} -3x(2x-y) \\ = -6x^2 + 3xy \end{array}$$

↑
alphabetical

Simplify using the distributive property:

$$\begin{aligned} & 2n^2 - 1(5 - n^2) \\ &= \underline{2n^2} - 5 + \underline{1n^2} \\ &= 3n^2 - 5 \end{aligned}$$

$$\begin{aligned} & b^2 - 2(b^2 + 4) \\ &= \underline{1b^2} - \underline{2b^2} - 8 \\ &= -1b^2 - 8 \\ & \boxed{-b^2 - 8} \end{aligned}$$

Dividing an expression:

$$\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$$

so...

$$\frac{6x+4}{2}$$

$$= \frac{6x}{2} + \frac{4}{2}$$

$$= 3x+2$$

$$\frac{-8x+20}{4}$$

$$= \frac{-8x}{4} + \frac{20}{4}$$

$$= -2x+5$$

$$\frac{9m-15n}{-3}$$

$$= -3m+5n$$

alphabetical

Homework:

Page 101

17-49
all

due: Wed.

$$-2(6x+3)$$

$$-12x - 6$$

$$7x^2 - (3 - x^2)$$

$$7x^2 - 3 + x^2$$