September 23, 2014 2nd Storter

Using the prices below, find a way to buy exactly 100 animals with exactly \$100. You must buy at least one of each animal.

Cows: \$10 each

Pigs: \$3 each

Chickens: \$.50 each

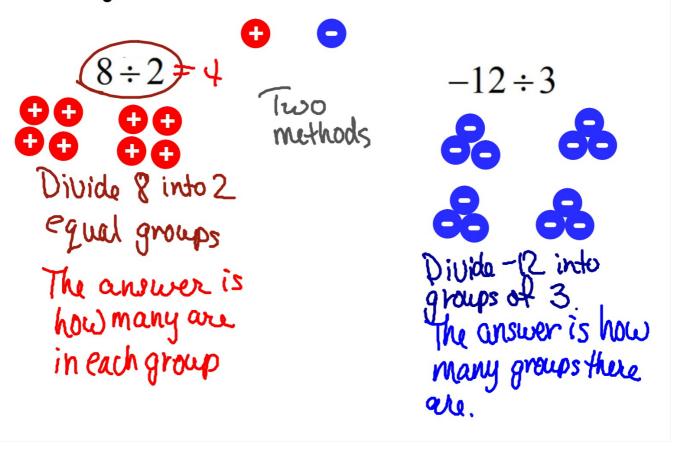


$$7e-m-4w$$

= $7(3)+(+8)-4(1)$
= $21+8+74$
= $29+74$
= 25
(Z) $-9N^2+2N-7$
= $-9(-1)^2+2(-1)-7$
= $-9+(-2)+7$
= $-9+(-2)+(-7)$
= -18
 $-3\cdot(-4)^2$
= $-19+(-2)+3$
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9/23 Division with Integers

Use integer counters to show:



Division and Multiplication are inverse operations

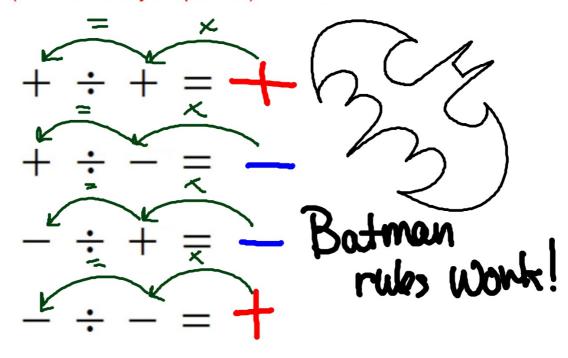
so you can rewrite divide equations as multiply equations.

one operation will undo the other.

$$8 \div 2 = 4$$
 $2 \cdot 4 = 8$
 $3 \cdot -4 = -12$
or
 $4 \cdot 2 = 8$
 $-4 \cdot 3 = -12$

Look at the signs - what are the rules for dividing integers?

(Discuss with your partner)



On Your Own

Divide.

1.
$$14 \div 2 = 7$$

2.
$$-32 \div (-4) =$$

1.
$$14 \div 2 = 7$$
 2. $-32 \div (-4) = 8$ 3. $-40 \div (-8) = 5$

4.
$$0 \div (-6) = 0$$
 5. $\frac{-49}{7} = -7$ 6. $\frac{21}{-3} = -7$

5.
$$\frac{-49}{7} = -7$$

6.
$$\frac{21}{-3} = -7$$

there is no number that works but you need an answer, so you write;

Now some harder ones. Remember to use the Order of Operations!!

$$-5 \cdot \left(\frac{10}{-5}\right)^{3} -4 \cdot \frac{3 \cdot -8}{6 \cdot -2}$$

$$= -5 \cdot (-2)^{3}$$

$$= -4 \cdot \frac{-24}{-12}$$

$$= -4 \cdot 2$$

$$= -4 \cdot 2$$

Homework Green WS

Due Thursday end of class