

# Algebra 1 Bellwork Friday, September 26, 2014

1. You went to the store and bought some apples at \$0.79 each. You bought 2 more pears than apples and they cost \$1.15 each. You also bought a gallon of milk for \$2.99. Your bill at the cash register was for a total of \$13.05. Write and solve an equation to find the number of apples and pear purchased.

# of Apples =

# of Pears =

2. Two angles are supplementary. One of the angles is six less than twice the other angle. Write and solve an equation to find the measure of both angles. (Two angles are supplementary if they have a sum of  $180^\circ$ )

Solve each.

3.  $8 - 3(4Q + 5) + 7Q - 9 = 45$

4.  $8C + 14 = 6C - 32$

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$x = \# \text{ apples}$   
4

$x + 2 = \# \text{ pears}$   
4 + 2

cost of apples + cost of pears + cost milk = TOTAL Bill

$0.79x + 1.15(x+2) + 2.99 = 13.05$

$0.79x + 1.15x + 2.30 + 2.99 = 13.05$

$1.94x + 5.29 = 13.05$   
 $-5.29 \quad -5.29$

$1.94x = 7.76$   
 $\frac{1.94}{1.94} \quad \frac{7.76}{1.94}$   
 $x = 4$

# of Apples = 4

# of Pears = 6

2. Two angles are supplementary. One of the angles is six less than twice the other angle. Write and solve an equation to find the measure of both angles. (Two angles are supplementary if they have a sum of  $180^\circ$ )

$x = \text{one of the angles}$

$2x - 6 = \text{the other angle}$

$x + 2x - 6 = 180$

$3x - 6 = 180$   
 $+6 \quad +6$   
 $3x = 186$

$\frac{3x}{3} = \frac{186}{3}$

$x = 62$

$62^\circ$  &  $118^\circ$

Solve each.

3.  $8 - 3(4Q + 5) + 7Q - 9 = 45$

$8 - 12Q - 15 + 7Q - 9 = 45$

$-5Q - 16 = 45$   
 $+16 \quad +16$

$-5Q = 61$   
 $-5 \quad -5$   
 $-Q = 12.2$

$Q = -12.2$

4.  $8C + 14 = 6C - 32$

$-6C \quad -6C$

$2C + 14 = -32$   
 $-14 \quad -14$

$\frac{2C}{2} = \frac{-46}{2}$

$C = -23$