

### **One-Step Equation Review**

1) 
$$m + 9 = 3$$

2) 
$$m - 3 = -5$$

4)  $\frac{x}{-5} = -2$ 

## **<u><b>Two-Step Equation Procedures**</u>

It takes two steps to solve an equation that has more than one operation.

## **Use PEMDAS backwards**

- 1. Cancel by using the addition or subtraction property of equality. (use the inverse of addition or subtraction)
- 2. Cancel further by using the multiplication or division property of equality. (use the inverse of multiplication or division)

*a*) 2x - 15 = 5

- 1. Cancel addition or subtraction
- 2. Cancel multiplication or division

**b**) 11n + 1 = 67

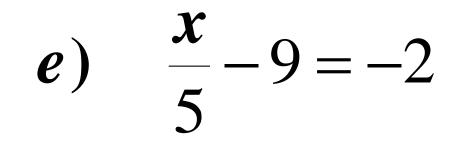
- 1. Cancel addition or subtraction
- 2. Cancel multiplication or division

$$c) - 2y + 4 = 8$$

- 1. Cancel addition or subtraction
- 2. Cancel multiplication or division

*d*) 5x - 2 = 3

- 1. Cancel addition or subtraction
- 2. Cancel multiplication or division



- 1. Cancel addition or subtraction
- 2. Cancel multiplication or division

#### **Solving Two-Step Equation Word Problems**

 f) Bobby bought 3 T-shirts at the mall and a pair of pants for \$16 at the clothing store. All together he spent \$28 for the clothes. How much was each shirt?

#### **Solving Two-Step Equation Word Problems**

g) Diane sold 9 decorated flowers that cost the same amount each plus a dozen roses for \$28. All together she sold \$73 in flowers. How much was each decorated flower?



# Remember, use inverse operations to solve equations.

# *Work in reverse order of operations.*



## 1) 5x + 4 = 19 2) 2t + 7 = -1



## 3) $\frac{x}{-5} + 4 = -2$ 4) -7t + 3 = -25

## **h**) 5(x-4)=15

*i*) -4(m+3) = 24

$$j) \frac{x}{8} - \frac{1}{2} = -\frac{7}{2}$$

$$k) \frac{2}{5} + 4a = -\frac{6}{5}$$

#### **<u>Combining Like Terms Before Solving</u>**

*l*) 
$$3y - 8y = 25$$

#### **Combining Like Terms Before Solving**

**m**) 7x - 10x = -27