5.1 One Step Equations

Directions: For each equation, write a verbal translation, model the situation and find the solution.

1)
$$h + 6 = 8$$

Verbal:

An unknown plus 6 equals 8.

Opposite:

Subtract 6

Solution:

2) b-3=5

Verbal:

An unknown minus 3 equals 5.

Opposite:

Add 3.

Solution: 8

3) 2n = 6

Verbal:

A number times 2 equals 6.

Opposite:

Dividing by 2.

Solution:

Directions: Solve and check each equation.

4)
$$8 = k - 5$$

13 = K

5)
$$\frac{b}{a} = -24$$

7)
$$31.2 = \frac{t}{3}$$
 3

9)
$$\frac{-3g}{3} + \frac{-15}{3}$$

15)
$$3(-10) = \frac{y}{5}(5)$$

 $-30 = y$
 $-10 = -\frac{30}{5}$
 $-10 = -10 = -\frac{30}{5}$

Directions: Sully solved the following. Check his solution to see if it is correct. If incorrect, find the correct solution.

16) Sully says h = 4

17) Sully says n = -4

15 N = 8 15 N = 32

Directions: Brust solved the following equations. He DEFINITELY made some mistakes! Using complete sentences explain his mistake and then find the correct solution.

18)

$$h+5=-4$$
 $+4=+4$
 $h+9=0$
 $h=9$

h+5=-4 h=-9 19

Show 0
SHARACT
$$= +2$$

BY 2. $x = -8$

2+X= 10 -L X =-1L