

Name Key
Mrs. Roubos

Date _____
8R Period _____

Homework

Solve the equation for the given variable #1: Solve + state the properties used
#2: Solve + check

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

+2 /7 Addition Property of Equality

$$\left(\frac{x}{7}\right) = \left(\frac{x}{7}\right)(7)$$

Multiplication Property of Equality

$$\boxed{x=7}$$

$$3) -8 = \frac{3}{8}x - 5$$

+5 /5

$$\left(\frac{8}{3}\right)(-3) = \left(\frac{3}{8}\right)(\frac{8}{3})$$

$$\boxed{x=-8}$$

$$5) 3w + 26 = 41$$

-26 -26

$$\frac{3w}{3} = \frac{15}{3}$$

$$\boxed{w=5}$$

$$7) 8 = 5z - 27$$

+27 +27

$$\frac{35}{5} = \frac{5z}{5}$$

$$\boxed{z=7}$$

$$2) 47 = 26 + 7x$$

-26 -26

$$\frac{21}{7} = \frac{7x}{7}$$

$$\boxed{x=3}$$

check

$$47 = 26 + 7x$$

$$47 = 26 + 7(3)$$

$$47 = 26 + 21$$

$$47 = 47$$

✓

$$4) 2y - 27 = -17$$

+27 +27

$$\frac{2y}{2} = \frac{10}{2}$$

$$\boxed{y=5}$$

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

-4 -4

$$\left(\frac{x}{4}\right) = \left(\frac{x}{4}\right)(4)$$

$$\boxed{x=8}$$

$$8) 2c + 20 = 30$$

-20 -20

$$\frac{2c}{2} = \frac{10}{2}$$

$$\boxed{c=5}$$