

Name: _____ Period: _____ Date: _____

Solving Two-Step Equations Bell Work

Solve each equation for the variable given.

1. $18x - 14 = 22$

2. $-22 = -8 + 7y$

3. $\frac{q}{3} - 19 = 8$

4. $8(z + 8) = -56$

5. $\frac{p+8}{9} = -7$

6. $\frac{k+4}{-9} = -8$

Solving Two-Step Equations Bell Work**Answers**

Solve each equation for the variable given.

1. $18x - 14 = 22$

$$18x - 14 + 14 = 22 + 14$$

$$18x = 36$$

$$\frac{18x}{18} = \frac{36}{18}$$

$$x = 2$$

2. $-22 = -8 + 7y$

$$-22 + 8 = -8 + 8 + 7y$$

$$-14 = 7y$$

$$\frac{-14}{7} = \frac{7y}{7}$$

$$y = -2$$

3. $\frac{q}{3} - 19 = 8$

$$\frac{q}{3} - 19 + 19 = 8 + 19$$

$$\frac{q}{3} = 27$$

$$3 \times \frac{q}{3} = 3 \times 27$$

$$q = 81$$

4. $8(z + 8) = -56$

$$\frac{8(z+8)}{8} = \frac{-56}{8}$$

$$z + 8 = -7$$

$$z + 8 - 8 = -7 - 8$$

$$z = -15$$

5. $\frac{p+8}{9} = -7$

$$\frac{p+8}{9} \times 9 = -7 \times 9$$

$$p + 8 = -63$$

$$p + 8 - 8 = -63 - 8$$

$$p = -71$$

6. $\frac{k+4}{-9} = -8$

$$\frac{k+4}{-9} \times -9 = -8 \times -9$$

$$k + 4 = 72$$

$$k + 4 - 4 = 72 - 4$$

$$k = 68$$