

## 0.1 Solving Simple Equations

## Corrective Assignment #1

Directions: Solve for the unknown variable. Show your work as it was described in the video.

1.  $-6 = 4p - 10$

2.  $15 - 2d = 11$

3.  $2 = \frac{k + 2}{2.5}$

4.  $\frac{y + 2}{6} = 1$

5.  $\frac{h}{5} + 2 = 6$

6.  $-3r - 5 = -23$

7.  $3k - 6 = -27$

8.  $h - 3h = -16$

9.  $-5 - \frac{r}{3} = -8$

10.  $3 = \frac{a + 1}{5}$

11.  $6 = 6 - 8h$

12.  $9.9 = \frac{d}{4.4} + 1.1$

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Directions: Solve for the unknown variable. Show your work as it was described in the video.

$$\begin{array}{r}
 -6 = 4p - 10 \\
 +10 \quad +10 \\
 \hline
 4 = 4p \\
 \frac{4}{4} = \frac{4p}{4} \\
 1 = p
 \end{array}$$

$$\begin{array}{r}
 15 - 2d = 11 \\
 -15 \quad -15 \\
 \hline
 -2d = -4 \\
 \frac{-2d}{-2} = \frac{-4}{-2} \\
 d = 2
 \end{array}$$

$$\begin{array}{r}
 2.5 \cdot 2 = \frac{k+2}{2.5} \cdot 2.5 \\
 5 = k + 2 \\
 -2 \quad -2 \\
 \hline
 3 = k
 \end{array}$$

$$\begin{array}{r}
 6 \cdot \frac{y+2}{6} = 1 \cdot 6 \\
 y+2 = 6 \\
 -2 \quad -2 \\
 \hline
 y = 4
 \end{array}$$

$$\begin{array}{r}
 \frac{h}{5} + 2 = 6 \\
 -2 \quad -2 \\
 \hline
 \frac{h}{5} = 4 \\
 5 \cdot \frac{h}{5} = 4 \cdot 5 \\
 h = 20
 \end{array}$$

$$\begin{array}{r}
 -3r - 5 = -23 \\
 +5 \quad +5 \\
 \hline
 -3r = -18 \\
 r = 6
 \end{array}$$

$$\begin{array}{r}
 3k - 6 = -27 \\
 +6 \quad +6 \\
 \hline
 3k = -21 \\
 k = -7
 \end{array}$$

$$\begin{array}{r}
 h - 3h = -16 \\
 -2h = -16 \\
 \frac{-2h}{-2} = \frac{-16}{-2} \\
 h = 8
 \end{array}$$

$$\begin{array}{r}
 -5 - \frac{r}{3} = -8 \\
 +5 \quad +5 \\
 \hline
 -\frac{r}{3} = -3 \\
 \text{put negative sign in bottom} \\
 \frac{r}{-3} = -3 \cdot -3 \\
 r = 9
 \end{array}$$

$$\begin{array}{r}
 5 \cdot 3 = \frac{a+1}{5} \cdot 5 \\
 15 = a+1 \\
 -1 \quad -1 \\
 \hline
 14 = a
 \end{array}$$

$$\begin{array}{r}
 6 = 6 - 8h \\
 -6 \quad -6 \\
 \hline
 0 = -8h \\
 \frac{0}{-8} = \frac{-8h}{-8} \\
 0 = h
 \end{array}$$

$$\begin{array}{r}
 9.9 = \frac{d}{4.4} + 1.1 \\
 -1.1 \quad -1.1 \\
 \hline
 8.8 = \frac{d}{4.4} \\
 (4.4) \cdot 8.8 = \frac{d}{4.4} \cdot (4.4) \\
 38.72 = d
 \end{array}$$