



# Solving Multi Step Equations

Name \_\_\_\_\_

Score \_\_\_\_\_

MS:10

Solve each equation.

1)  $\frac{2(h-4)}{9} = \frac{6(2-h)}{7}$

2)  $\frac{2.4(5d+2)}{4} + 3.2 = 7.7$

3)  $1.4(3u+2) + 4.7 - 3(u-1.6) = 0$

4)  $6(m-7) + 1 = 10 - 3(4m+3)$

5)  $\frac{4\left(a + \frac{3}{4}\right)}{\left(\frac{2}{3}\right)} = \frac{9}{8}$

6)  $\frac{v}{7} - \frac{5}{6} = \frac{5}{6} - \frac{4}{7}v$

7)  $-8(6y+11) = 56$

8)  $\frac{k}{1.5} - 1 - 2.1k = 6.4 + 3.5k$



# Solving Multi Step Equations

Name \_\_\_\_\_

Score \_\_\_\_\_

## Answer key

MS:10

Solve each equation.

1) 
$$\frac{2(h-4)}{9} = \frac{6(2-h)}{7}$$

$$h = 2\frac{7}{17}$$

2) 
$$\frac{2.4(5d+2)}{4} + 3.2 = 7.7$$

$$d = 1.1$$

3) 
$$1.4(3u+2) + 4.7 - 3(u-1.6) = 0$$

$$u = -10.25$$

4) 
$$6(m-7) + 1 = 10 - 3(4m+3)$$

$$m = 2\frac{1}{3}$$

5) 
$$\frac{4\left(a + \frac{3}{4}\right)}{\left(\frac{2}{3}\right)} = \frac{9}{8}$$

$$a = -\frac{9}{16}$$

6) 
$$\frac{v}{7} - \frac{5}{6} = \frac{5}{6} - \frac{4}{7}v$$

$$v = 2\frac{1}{3}$$

7) 
$$-8(6y+11) = 56$$

$$y = -3$$

8) 
$$\frac{k}{1.5} - 1 - 2.1k = 6.4 + 3.5k$$

$$k = -1.5$$