Two-Step Equations Worksheet Answer Key

Left Foot, Right Foot, Left Foot, Pause

1.

$$\frac{-a+9}{12} = 2$$

$$-a+9 = 24$$

$$-a = 15$$

$$a = -15$$

3.

$$\frac{45 - 15}{x + 2} = 5$$
$$30 = 5x + 10$$
$$20 = 5x$$
$$x = 4$$

4

$$5w + 4 - 11w = |2|$$
$$-6w + 4 = |2|$$

4.

$$3x - 5 = 2x - 12$$
$$x = -7$$

-6w + 4 = 2 -6w + 4 = -2 -6w = -6 $w = \frac{1}{3}$ w = 1

5.

$$4x + 12 = 2x + 6$$
$$2x = -6$$
$$x = -3$$

$$w = \frac{1}{3}, 1$$

6.

$$4y + 3 = 5y + 2$$
$$y + 2 = 3$$
$$y = 1$$

7.
$$\frac{4k+2}{k} = 2$$

$$4k+2 = 2k$$

2k = -2

$$4y = 2y + 7$$
$$2y = 7$$
$$y = \frac{7}{2} = 3\frac{1}{2}$$

10.

8.
$$2a + 8 = 9a + 4$$
$$4 = 7a$$
$$a = \frac{4}{7}$$

$$6-7y = 2(-4)y + 1$$
$$6-7y = -8y + 1$$
$$5 = -y$$
$$y = -5$$