

Overview of problems



Example Set: A

Solve the equations – show all work:

1.
$$x + 1 = 7$$

6.
$$y - 12 = 4$$

2.
$$z - \frac{1}{2} = 3$$

7.
$$t + 15 = -15$$

3.
$$9 + n = 0$$

8.
$$40 = x - (-8)$$

4.
$$g + 2 = -10$$

9.
$$12 + h = -\frac{1}{3}$$

5.
$$x + 2.9 = 7.6$$

10.
$$c - 1.3 = 12.5$$



Example Set: B

Solve the equations - show all work:

1.
$$2x = 14$$

5.
$$-3x = 18$$

2.
$$-4y = -20$$

6.
$$-x = 3\frac{2}{3}$$

3.
$$6x = 30$$

7.
$$-10z = -100$$

4.
$$8.1w = .02$$

8.
$$-.002t = 1.039$$



Overview of problems



Example Set: C

Solve the equations - show all work:

1.
$$\frac{1}{3}x = 2$$

5.
$$\frac{2}{5}y = 3$$

$$2. \, \frac{9}{10}t = 1$$

6.
$$-\frac{7}{11}w = \frac{1}{2}$$

3.
$$\frac{-6x}{7}$$
 = 36

$$7.\frac{3t}{20} = -90$$

4.
$$\frac{x}{4} = -5\frac{1}{2}$$

$$8.\frac{m}{-4} = -\frac{3}{4}$$



Example Set: D

1. In physics the formula for force is F=ma. Where F (force) is measured in Newtons, m (mass) in kg and a (acceleration) in meters/second squared. How fast would a 500kg horse have to accelerate to create a force of 14000N?





Overview of problems



Example Set: A -ANSWER KEY

Solve the equations – show all work:

1.
$$x + 1 = 7$$
 $x = 6$

6.
$$y - 12 = 4$$
 $y = 16$

2.
$$z - \frac{1}{2} = 3$$
 $z = 3\frac{1}{2}$

7.
$$t + 15 = -15$$
 $t = -30$

3.
$$9 + n = 0$$
 $n = -9$

8.
$$40 = x - (-8) x = 32$$

4.
$$g + 2 = -10$$
 $g = -12$

9.
$$12 + h = -\frac{1}{3} \ h = -12\frac{1}{3}$$

5.
$$x + 2.9 = 7.6$$
 $x = 4.7$

10.
$$c - 1.3 = 12.5$$
 $c = 13.8$



Example Set: B- ANSWER KEY

Solve the equations – show all work:

1.
$$2x = 14 x = 7$$

5.
$$-3x = 18 \ x = -6$$

2.
$$-4y = -20 \ y = 5$$

6.
$$-x = 3\frac{2}{3}x = -3\frac{2}{3}$$

3.
$$6x = 30 x = 5$$

7.
$$-10z = -100 z = 10$$

4.
$$8.1w = .02 w = .002469$$

8.
$$-.002t = 1.039 \ t = -519.5$$



Overview of problems



Example Set: C-ANSWER KEY

Solve the equations - show all work:

1.
$$\frac{1}{3}x = 2$$
 $x = 6$

2.
$$\frac{9}{10}t = 1$$
 $t = 10/9$

3.
$$\frac{-6x}{7} = 36 \ x = -42$$

4.
$$\frac{x}{4} = -5\frac{1}{2}$$
 $x = -22$

5.
$$\frac{2}{5}y = 3$$
 $y = \frac{15}{2}$

6.
$$-\frac{7}{11}w = \frac{1}{2}w = -\frac{11}{4}$$

$$7.\frac{3t}{20} = -90 \ t = -600$$

$$8.\frac{m}{-4} = -\frac{3}{4}$$
 $m = 3$



Example Set: D-ANSWER KEY

1. In physics the formula for force is F=ma. Where F (force) is measured in Newtons, m (mass) in kg and a (acceleration) in meters/second squared. How fast would a 500kg horse have to accelerate to create a force of 14000N?



