

Overview of problems



Example Set: A

Solve the equations- show all work:

1.
$$2x + 6 = 18$$

2.
$$10y - 50 = -150$$

3.
$$3x - 7 = 23$$

4.
$$-3z + 5 = 26$$

5.
$$-w + 9 = -31$$

6.
$$\frac{1}{4}x + 2 = 3$$



Example Set: B

Solve the equations- show all work:

1.
$$\frac{1}{3}x + 6 = 10$$

5.
$$6 = 14 - 2x$$

2.
$$-4 + \frac{4}{5}x = -6$$

6.
$$-\frac{2}{5}t + 1 = -2$$

$$3. \ \frac{3}{8}W - \frac{1}{4} = \frac{1}{16}$$

7.
$$7 + \frac{m}{11} = -3$$

4.
$$\frac{t}{6} + \frac{1}{3} = \frac{1}{2}$$

8.
$$3p - (-4) = 17$$



Overview of problems



Example Set: C

Solve the equations- show all work:

1.
$$5.9x + 2.6 = 14.7$$

2.
$$-1.3y - 108.4 = .015$$

3.
$$.00715 + .3z = -401$$

4.
$$8.9g - .25 = \frac{1}{8}$$



Example Set: D

1. The formula below models the population growth for a small town where P is the population and Y is the years of growth. Approximately how many days will it take the town to reach a population of 17,500?

P = 600Y + 14000





Overview of problems



Example Set: A -ANSWER KEY

Solve the equations- show all work:

1.
$$2x + 6 = 18$$
 $x = 6$

2.
$$10y - 50 = -150$$
 $y = -10$

3.
$$3x - 7 = 23$$
 $x = 10$

4.
$$-3z + 5 = 26$$
 $z = -7$

5.
$$-w + 9 = -31$$
 $w = 40$

6.
$$\frac{1}{4}x + 2 = 3$$
 $x = 4$



Example Set: B- ANSWER KEY

Solve the equations- show all work:

1.
$$\frac{1}{3}x + 6 = 10$$
 $x = 12$

2.
$$-4 + \frac{4}{5}x = -6$$
 $x = -\frac{5}{2}$

3.
$$\frac{3}{8}w - \frac{1}{4} = \frac{1}{16}$$
 $w = \frac{5}{6}$

4.
$$\frac{t}{6} + \frac{1}{3} = \frac{1}{2}$$
 $t = 1$

5.
$$6 = 14 - 2x$$
 $x = 4$

6.
$$-\frac{2}{5}t + 1 = -2$$
 $t = \frac{15}{2}$

7.
$$7 + \frac{m}{11} = -3$$
 $m = -110$

8.
$$3p - (-4) = 17 p = \frac{13}{3}$$



Overview of problems



Example Set: C-ANSWER KEY

Solve the equations- show all work:

1.
$$5.9x + 2.6 = 14.7$$
 $x = 2.050$

2.
$$-1.3y - 108.4 = .015$$
 $y = -83.396$

3.
$$.00715 + .3z = -401$$
 $z = -1336.6905$

4.
$$8.9g - .25 = \frac{1}{8} g = .04213$$

Example Set: D-ANSWER KEY

1. The formula below models the population growth for a small town where P is the population and Y is the years of growth. Approximately how many days will it take the town to reach a population of 17,500?

$$P = 600Y + 14000$$

2127.95 days

