

#### **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**

P

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.  $5.9x + 2.6 = 14.7 \quad x = 2.050$
- 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

