

# Overview of problems



Example Set: A

### Solve the equations- show all work:

1. 
$$8(y-4)=10$$

2. 
$$5(x + 6) = 2x$$

3. 
$$-6x + 8 = 4x - 12$$

4. 
$$2(x+6) = 9(x-1)$$

5. 
$$15x + 21 - x = 10x - 9$$



Example Set: B

### Solve the equations- show all work:

1. 
$$-4(3-x) = 11(4x-3)$$

2. 
$$\frac{1}{2}(8n-2) = 16-30n$$

3. 
$$6\left(\frac{3}{2}x+1\right) = -9\left(\frac{1}{3}x-2\right)$$



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Example Set: C

Solve the equations- show all work:

1. 
$$2(y-4) + 3(y-10) = 10y + 16$$

2. 
$$\frac{4}{9}x = 6(x+6) + x$$

3. 
$$70 = \frac{2}{3}m + \frac{1}{9}$$



r Example Set: D

Solve the equation- show all work:

1. 
$$7(9.63x - .32) - 5.12 = -2(67.28x + 3.01)$$



🟲 Example Set: E

1. On a vacation you are told the outside temperature is 75 degrees Fahrenheit. Given the conversion formula below determine how warm it is outside in Celsius.

$$F = \frac{9}{5}C + 32$$



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# Example Set: A -ANSWER KEY

#### Solve the equations- show all work:

1. 
$$8(y-4) = 10$$
  $y = 5.25$ 

2. 
$$5(x+6) = 2x x = -10$$

3. 
$$-6x + 8 = 4x - 12$$
  $x = 2$ 

4. 
$$2(x+6) = 9(x-1) x = 3$$

5. 
$$15x + 21 - x = 10x - 9$$
  $x = -7.5$ 



# Example Set: B- ANSWER KEY

## Solve the equations- show all work:

1. 
$$-4(3-x) = 11(4x-3) \ x = \frac{21}{40}$$

2. 
$$\frac{1}{2}(8n-2) = 16 - 30n \ n = \frac{1}{2}$$

3. 
$$6\left(\frac{3}{2}x+1\right) = -9\left(\frac{1}{3}x-2\right) x = 1$$



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Example Set: C-ANSWER KEY

Solve the equations- show all work:

1. 
$$2(y-4) + 3(y-10) = 10y + 16$$
  $y = -10.8$ 

2. 
$$\frac{4}{9}x = 6(x+6) + x$$
  $x = -5.49$ 

3. 
$$70 = \frac{2}{3}m + \frac{1}{9}m = 104.83$$



Example Set: D-ANSWER KEY

Solve the equation- show all work:

1. 
$$7(9.63x - .32) - 5.12 = -2(67.28x + 3.01)$$
  $x = .00663$ 

Example Set: E-ANSWER KEY

2. On a vacation you are told the outside temperature is 75 degrees Fahrenheit. Given the conversion formula below determine how warm it is outside in Celsius. 23.8°C

$$F = \frac{9}{5}C + 32$$