

### Variables on both sides

EX:  $3(5 - 8x) - 2x = -x + 40$

Distribute  $15 - 24x - 2x = -x + 40$

Combine  $15 - 26x = -x + 40$

Remove variable  $+ 26x = +26x$

$$15 = 25x + 40$$

Isolate variable  $-40 = -40$

$$-25 = 25x$$

$$/25 = /25$$

$$-1 = x$$

$$3(5) = 15 \quad 3(-8x) = -24$$

$$-24x - 2x = -26x$$

1.  $2m + 4 = 3m$

$$\underline{m = m}$$

2.  $3k - 1 = 7k + 3$

$$\underline{k = k}$$

ANSWER  $m =$

ANSWER  $k =$

3.  $2r + 7 = -13 + 6r$

4.  $2 + b + 3 = -b + 13$

$$+b = -b + 13$$

ANSWER  $r =$

Answer  $b =$

Put the answer in fraction form. Ex: -11/6

$$\begin{aligned} 5. \quad 1 - 5n &= 8(n-8) \\ 1 - 5n &= n \end{aligned}$$

ANSWER      $n =$

$$\begin{aligned} 6. \quad 2m - 8 + m &= 8m \\ - 8 &= 8m \end{aligned}$$

ANSWER      $m =$