

# Answer

## PRACTICE - A

WHAT WOULD YOU MOVE TO SOLVE EACH EQUATION?

1.  $x + 23 = 30$

move 23

2.  $70 = t \times 5$

move 5

3.  $17 = h + 10$

move 10

4.  $40 = c - 16$

move 16

5.  $x - 20 = 40$

move 20

6.  $4c = 68$

move 4

7.  $24 = e - 17$

move 17

8.  $10 + y = 48$

move 10

9.  $x + 15 = 66$

move 15

DESCRIBE HOW YOU WOULD CHANGE EACH EQUATION TO GET THE VARIABLE ALONE.

10.  $5x = 40$

I would divide 5 both the sides.

11.  $20 = n/4$

I would multiply 4 both sides.

12.  $40 = h - 13$

I would add 13 both sides.

13.  $x - 6 = 17$

I would add 6 both sides.

14.  $48 + y = 33$

I would subtract 33 both sides.

15.  $22 = y/11$

I would multiply 11 both sides.

## PRACTICE - B

SOLVE EACH EQUATION.

1.  $30 + d = 44$

$$\begin{array}{r} 30 + d = 44 \\ -30 = -30 \\ \hline 0 + d = 14 \\ d = 14 \end{array}$$

2.  $60 = x + 14$

$$\begin{array}{r} 60 = x + 14 \\ -14 = -14 \\ \hline 46 = x + 0 \\ 46 = x \end{array}$$

3.  $36 + x = 40$

$$\begin{array}{r} 36 + x = 40 \\ -36 = -36 \\ \hline 0 + x = 4 \\ x = 4 \end{array}$$

4.  $y/4 = 8$

$$\begin{array}{r} y/4 = 8 \\ \times 4 = \times 4 \\ \hline 1y = 32 \\ y = 32 \end{array}$$

5.  $15 = v - 18$

$$\begin{array}{r} 15 = v - 18 \\ -15 = -15 \\ \hline 0 = v - 33 \\ 33 = v \end{array}$$

6.  $2h = 40$

$$\begin{array}{r} 2h = 40 \\ \div 2 = \div 2 \\ \hline 1h = 20 \\ h = 20 \end{array}$$

7.  $100 = x \times 5$

$$\begin{array}{r} 100 = x \times 5 \\ \div 5 = \div 5 \\ \hline 20 = 1x \\ 20 = x \end{array}$$

8.  $30 = 5h$

$$\begin{array}{r} 30 = 5h \\ \div 5 = \div 5 \\ \hline 6 = 1h \\ 6 = h \end{array}$$

9.  $x - 30 = 40$

$$\begin{array}{r} x - 30 = 40 \\ +30 = +30 \\ \hline x - 0 = 70 \\ x = 70 \end{array}$$

## PRACTICE - C

WHAT WOULD YOU MOVE TO SOLVE EACH EQUATION?

10.  $5e - 2 = 30$

first  $\frac{2}{5}$   
& then  $\frac{2}{5}$

11.  $8x + 10 = 40$

first  $\frac{10}{8}$   
& then  $\frac{10}{8}$

12.  $2 + 3y = 15$

first  $\frac{2}{3}$   
& then  $\frac{2}{3}$

13.  $x/5 - 3 = 3$

first  $\frac{3}{5}$   
& then  $\frac{3}{5}$

14.  $20 = 4x = 5$

first  $\frac{5}{4}$   
& then  $\frac{5}{4}$

15.  $2x + 15 = 18$

first  $\frac{15}{2}$   
& then  $\frac{15}{2}$

DESCRIBE HOW YOU WOULD CHANGE EACH EQUATION TO GET THE VARIABLE ALONE.

16.  $x/2 - 4 = 16$

first add 4  
& then multiply 2

17.  $30 = 5f - 10$

first add 10  
& then divide 5

18.  $24 = 2x + 4$

first subtract 4  
& then divide 2

## PRACTICE - D

1.  $x/2 - 12 = 2$   
 $+12 = +12$

---

$$\begin{aligned} x/2 &= 14 \\ x &= 14 \times 2 \\ x &= 28 \end{aligned}$$

2.  $15 + 5m = 30$   
 $-15 = -15$

---

$$\begin{aligned} 0 + 5m &= 15 \\ m &= 15/5 \\ m &= 3 \end{aligned}$$

3.  $x/5 - 2 = 7$   
 $+2 = +2$

---

$$\begin{aligned} x/5 - 0 &= 9 \\ x &= 9 \times 5 \\ x &= 45 \end{aligned}$$

4.  $30 = 2f - 16$   
 $+16 = +16$

---

$$\begin{aligned} 46 &= 2f - 0 \\ 46/2 &= f \\ 23 &= f \end{aligned}$$

5.  $k/5 + 1 = 16$   
 $-1 = -1$

---

$$\begin{aligned} k/5 + &= 15 \\ k &= 15 \times 5 \\ k &= 75 \end{aligned}$$

6.  $20 = 2 + x/4$   
 $-2 = -2$

---

$$\begin{aligned} 18 &= 0 + x/4 \\ 18 \times 4 &= x \\ 72 &= x \end{aligned}$$