

1.)  $t + 6 = 13$   
 $t = 13 - 6$   
 $t = 7$

13.)  $2y = 22$   
 $\frac{2y}{2} = \frac{22}{2}$   
 $y = 11$

22.)  $r/8 = 6$   
 $r = 6 \cdot 8$   
 $r = 48$

2.)  $n + 7 = 25$   
 $n = 25 - 7$   
 $n = 18$

14.)  $7r = 42$   
 $\frac{7r}{7} = \frac{42}{7}$   
 $r = 6$

23.)  $w/-2 = -4$   
 $w = -4 \cdot -2$   
 $w = +8$

3.)  $x + 13 = 19$   
 $x = 19 - 13$   
 $x = 6$

15.)  $5t = 0$   
 $\frac{5t}{5} = \frac{0}{5}$   
 $t = 0$

24.)  $y/-4 = 6$   
 $y = 6 \cdot -4$   
 $y = -24$

4.)  $5 + r = 21$   
 $r = 21 - 5$   
 $r = 16$

25.)  $x + 2 = -1$   
 $x = -1 - 2$   
 $x = -3$

5.)  $13 + s = 0$   
 $s = 0 - 13$   
 $s = -13$

16.)  $4q = 36$   
 $\frac{4q}{4} = \frac{36}{4}$   
 $q = 9$

26.)  $t - 12 = -10$   
 $t = -10 + 12$   
 $t = 2$

6.)  $q + 10 = 6$   
 $q = 6 - 10$   
 $q = -4$

17.)  $9y = 108$   
 $\frac{9y}{9} = \frac{108}{9}$   
 $y = 12$

27.)  $10r = 150$   
 $\frac{10r}{10} = \frac{150}{10}$   
 $r = 15$

7.)  $x - 4 = 11$   
 $x = 11 + 4$   
 $x = 15$

18.)  $-3t = -21$   
 $\frac{-3t}{-3} = \frac{-21}{-3}$   
 $t = 7$

28.)  $-2 \cdot p = -18$   
 $p = -18 \div -2$   
 $p = +9$

8.)  $y - 13 = 15$   
 $y = 15 + 13$   
 $y = 27$

9.)  $t - 9 = 46$   
 $t = 46 + 9$   
 $t = 55$

19.)  $x \div 3 = 3$   
 $x = 3 \cdot 3$   
 $x = 9$

29.)  $r \div -6 = 16$   
 $r = 16 \cdot -6$   
 $r = -96$  Collect like terms!

10.)  $r - 5 = -3$   
 $r = -3 + 5$   
 $r = 2$

20.)  $n \div 7 = 8$   
 $n = 8 \cdot 7$   
 $n = 56$

30.)  $x + x + x = 24$   
 $\frac{3x}{3} = \frac{24}{3}$   
 $x = 8$

11.)  $x - (-4) = 12$   
 $x = 12 + (-4)$   
 $x = 8$

21.)  $m \div 6 = 13$   
 $m = 13 \cdot 6$   
 $m = 78$

12.)  $7 - t = -2$   
 $-t = -2 - 7$   
 $\frac{-t}{-1} = \frac{-9}{-1}$   
 $t = 9$

Must make the variable positive!

$$1.) t - 7 = -5$$
$$t = -5 + 7$$
$$t = 2$$

$$2.) 3t = 246$$
$$\frac{3t}{3} = \frac{246}{3}$$
$$t = 82$$

$$3.) \frac{q}{5} = 60$$
$$q = 60 \cdot 5$$
$$q = 300$$

$$4.) x - 39 = 86$$
$$x = 86 + 39$$
$$x = 125$$

$$5.) n + 3.7 = 12.2$$
$$n = 12.2 - 3.7$$
$$n = 8.5$$

$$6.) b - 9.3 = 21.4$$
$$b = 21.4 + 9.3$$
$$b = 30.7$$

$$7.) y + 11 = 87.3$$
$$y = 87.3 - 11$$
$$y = 76.3$$

$$8.) \frac{m}{6} = 11.2$$
$$\frac{m}{6} = 11.2 \cdot 6$$
$$m = 67.2$$

$$9.) 35x = 252$$
$$x = \frac{252}{35}$$
$$x = 7.2$$

$$10.) \frac{r}{26} = 4.5$$
$$r = 4.5 \cdot 26$$
$$r = 117$$

$$11.) -4 + z = -10$$
$$z = -10 + 4$$
$$z = -6$$

$$12.) x - 127 = 48$$
$$x = 48 + 127$$
$$x = 175$$

$$13.) x + 134 = 502$$
$$x = 502 - 134$$
$$x = 368$$

$$14.) 13t = 143$$
$$\frac{13t}{13} = \frac{143}{13}$$
$$t = 11$$

$$15.) \frac{m}{15} = 22$$
$$m = 22 \cdot 15$$
$$m = 330$$

$$16.) 23 - t = 12$$
$$-t = 12 - 23$$
$$\frac{-t}{-1} = \frac{-11}{-1}$$
$$t = 11$$

$$17.) \frac{70}{x} = 10$$

~~70 = 10x~~

$$\frac{1}{x} = \frac{10}{70}$$
$$\frac{x}{1} = \frac{70}{10}$$
$$x = 7$$

$$18.) t + t + 2t = 44$$
$$\frac{4t}{4} = \frac{44}{4}$$
$$t = 11$$

$$19.) 5a - 2a = 90$$
$$\frac{3a}{3} = \frac{90}{3}$$
$$a = 30$$

$$20.) 45t = 585$$
$$\frac{45t}{45} = \frac{585}{45}$$
$$t = 13$$



Collect like terms!

$$1.) 2a + 6 = 16$$

$$2a = 16 - 6$$

$$\frac{2a}{2} = \frac{10}{2}$$

$$a = 5$$

$$7.) \frac{h}{4} + 5 = 6$$

$$\frac{h}{4} = 6 - 5$$

$$h = +1 \cdot 4$$

$$h = +4$$

$$13.) 2a + 3a - 8 = 12$$

$$5a - 8 = 12$$

$$5a = 12 + 8$$

$$a = 20 \div 5$$

$$a = 4$$

$$14.) 1.6p + 9.1 = 13.9$$

$$1.6p = 13.9 - 9.1$$

$$p = \frac{4.8}{1.6}$$

$$p = 3$$

$$2.) 3n - 5 = 13$$

$$3n = 13 + 5$$

$$\frac{3n}{3} = \frac{18}{3}$$

$$n = 6$$

$$8.) 3n + 1.5 = 7.5$$

$$3n = 7.5 - 1.5$$

$$n = 6 \div 3$$

$$n = 2$$

$$15.) \frac{t}{4.5} + 7.1 = 9.1$$

$$\frac{t}{4.5} = 9.1 - 7.1$$

$$t = 2 \cdot 4.5$$

$$t = 9$$

$$3.) 4t - 12 = 20$$

$$4t = 20 + 12$$

$$\frac{4t}{4} = \frac{32}{4}$$

$$t = 8$$

$$9.) 2p - 3.7 = 6.3$$

$$2p = 6.3 + 3.7$$

$$2p = 10$$

$$p = \frac{10}{2}$$

$$p = 5$$

$$16.) 30r + 65 = 215$$

$$30r = 215 - 65$$

$$\frac{30r}{30} = \frac{150}{30}$$

$$r = 5$$

$$10.) 14a - 50 = 20$$

$$14a = 20 + 50$$

$$\frac{14a}{14} = \frac{70}{14}$$

$$a = 5$$

$$17.) \frac{t}{12} + 18 = 30$$

$$\frac{t}{12} = 30 - 18$$

$$t = 12 \cdot 12$$

$$t = 144$$

$$4.) \frac{n}{5} + 8 = 12$$

$$\frac{n}{5} = 12 - 8$$

$$n = 4 \cdot 5$$

$$n = 20$$

$$11.) 10 - 2t = -5$$

$$-2t = -5 - 10$$

$$\frac{-2t}{-2} = \frac{-15}{-2}$$

$$t = 7.5$$

$$18.) \frac{n}{6} - 40 = -20$$

$$\frac{n}{6} = -20 + 40$$

$$n = 20 \cdot 6$$

$$n = 120$$

$$5.) \frac{r}{3} + 15 = 25$$

$$\frac{r}{3} = 25 - 15$$

$$\frac{r}{3} = 10$$

$$r = 10 \cdot 3$$

$$r = 30$$

$$12.) -4 + 3r = 8$$

$$3r = 8 + 4$$

$$\frac{3r}{3} = \frac{12}{3}$$

$$r = 4$$

$$19.) 3m + 7 = -8$$

$$3m = -8 - 7$$

$$\frac{3m}{3} = \frac{-15}{3}$$

$$m = -5$$

$$6.) 20n + (-5) = 35$$

$$20n = 35 - (-5)$$

$$\frac{20n}{20} = \frac{40}{20}$$

$$n = 2$$

$$20.) 45 + 13 + 2a + a = 100 - 6$$

$$58 + 3a = 94$$

$$3a = 94 - 58$$

$$a = 36 \div 3$$

$$a = 12$$