

Solve each equation. Check your solution.

1. $g + 5 = 33$

2. $104 = y - 67$

3. $\frac{2}{3} + w = 1\frac{1}{2}$

4. $-4 + t = -7$

5. $a + 26 = 35$

6. $-6 + c = 32$

7. $1.5 = y - (-5.6)$

8. $3 + g = \frac{1}{4}$

9. $x + 4 = \frac{3}{4}$

10. $\frac{t}{7} = -5$

11. $\frac{a}{36} = \frac{4}{9}$

12. $\frac{2}{3}n = 10$

13. $\frac{8}{9} = \frac{4}{5}k$

14. $12 = \frac{x}{-3}$

15. $-\frac{r}{4} = \frac{1}{7}$

18. $v - 9 = 14$

19. $44 = t - 72$

20. $-61 = d + (-18)$

21. $18 + z = 40$

22. $-4a = 48$

23. $12t = -132$

Solve each equation. Check your solution.

1. $g + 5 = 33$

$$\begin{array}{r} -5 \\ -5 \end{array}$$

$$g = 28$$

2. $104 = y - 67$

$$\begin{array}{r} +67 \\ +67 \end{array}$$

$$171 = y$$

3. $\frac{2}{3} + w = 1\frac{1}{2}$

$$\begin{array}{r} -\frac{2}{3} \\ -\frac{2}{3} \end{array}$$

$$w = 5/6$$

4. $-4 + t = -7$

$$\begin{array}{r} +4 \\ +4 \end{array}$$

$$t = -3$$

5. $a + 26 = 35$

$$\begin{array}{r} -26 \\ -26 \end{array}$$

$$a = 9$$

6. $-6 + c = 32$

$$\begin{array}{r} +6 \\ +6 \end{array}$$

$$c = 38$$

7. $1.5 = y - (-5.6)$

$$1.5 = y + 5.6$$

$$\begin{array}{r} -5.6 \\ -5.6 \end{array}$$

$$-4.1 = y$$

8. $3 + g = \frac{1}{4}$

$$\begin{array}{r} -3 \\ -3 \end{array}$$

$$g = -2\frac{3}{4}$$

9. $x + 4 = \frac{3}{4}$

$$\begin{array}{r} -4 \\ -4 \end{array}$$

$$x = -3\frac{1}{4}$$

10. $\frac{t}{7} = -5$

$$\begin{array}{r} 7 \\ 7 \end{array}$$

$$t = -35$$

11. $\frac{a}{36} = \frac{4}{9}$

$$a = 16$$

12. $\frac{2}{3}n = 10$

$$\begin{array}{r} \frac{3}{2} \\ \frac{3}{2} \end{array}$$

$$n = 15$$

13. $\frac{8}{9} = \frac{4}{5}k \cdot \frac{5}{4}$

$$\frac{5}{4}$$

$$1\frac{1}{9}k = k$$

14. $12 = \frac{x}{-3} \cdot -3$

$$-3$$

$$-36 = x$$

15. $\frac{r}{4} = \frac{1}{7} \cdot -\frac{4}{1}$

$$\begin{array}{r} -4 \\ -4 \end{array}$$

$$r = -\frac{4}{7}$$

18. $v - 9 = 14$

$$\begin{array}{r} +9 \\ +9 \end{array}$$

$$v = 23$$

19. $44 = t - 72$

$$\begin{array}{r} +72 \\ +72 \end{array}$$

$$116 = t$$

20. $-61 = d + (-18)$

$$\begin{array}{r} -61 = d - 18 \\ +18 \\ +18 \end{array}$$

$$-43 = d$$

21. $18 + z = 40$

$$\begin{array}{r} -18 \\ -18 \end{array}$$

$$z = 22$$

22. $-4a = 48$

$$\begin{array}{r} -4 \\ -4 \end{array}$$

$$a = -12$$

23. $12t = -132$

$$\begin{array}{r} 12 \\ 12 \end{array}$$

$$t = -11$$

Alg 1

Sec 2-3

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Name _____

Solve each equation. Check your solution.

1. $3m + 4 = -11$

2. $12 = -7f - 9$

3. $-3 = 2 + \frac{a}{11}$

4. $\frac{3}{2}a - 8 = 11$

5. $8 = \frac{x-5}{7}$

6. $\frac{c+1}{-3} = -21$

11. $3t + 7 = -8$

12. $8 = 16 + 8n$

13. $-34 = 6m - 4$

14. $9x + 27 = -72$

15. $\frac{y}{5} - 6 = 8$

16. $\frac{f}{-7} - 8 = 2$

17. $1 + \frac{r}{9} = 4$

18. $\frac{k}{3} + 4 = -16$

19. $\frac{n-2}{7} = 2$

20. $14 = \frac{6+z}{-2}$

21. $-11 = \frac{a-5}{6}$

22. $\frac{22-w}{3} = -7$

Solve each equation. Check your solution.

1. $3m + 4 = -11$
 $-4 \quad -4$

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

$m = -5$

4. $\frac{3}{2}a - 8 = 11$
 $+8 \quad +8$

$2 \cdot \frac{3}{2}a = 19 \cdot \frac{2}{3}$

$a = 12\frac{2}{3}$

11. $3t + 7 = -8$
 $-7 \quad -7$

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

$t = -5$

14. $9x + 27 = -72$
 $-27 \quad -27$

$9x = -99$
 $\frac{9}{9} \quad \frac{9}{9}$

$x = -11$

17. $1 + \frac{r}{9} = 4$
 $-1 \quad -1$

$9 \cdot \frac{r}{9} = 3 \cdot 9$

$r = 27$

20. $14 = \frac{6+z}{-2} \cdot -2$
 $-2 \cdot$

$-28 = 6 + z$
 $-6 \quad -6$

$-34 = z$

2. $12 = -7f - 9$
 $+9 \quad +9$

$21 = -7f$
 $\frac{21}{-7} \quad \frac{-7f}{-7}$

$-4 = f$

5. $8 = \frac{x-5}{7} \cdot 7$
 $7 \cdot$

$56 = x - 5$
 $+5 \quad +5$

$61 = x$

12. $8 = 16 + 8n$
 $-16 \quad -16$

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

$-1 = n$

15. $\frac{y}{5} - 6 = 8$
 $+6 \quad +6$

$5 \cdot \frac{y}{5} = 14 \cdot 5$

$y = 70$

18. $\frac{k}{3} + 4 = -16$
 $-4 \quad -4$

$3 \cdot \frac{k}{3} = -20 \cdot 3$

$k = -60$

21. $-11 = \frac{a-5}{6} \cdot 6$
 $6 \cdot$

$-66 = a - 5$
 $+5 \quad +5$

$-61 = a$

3. $-3 = 2 + \frac{a}{11}$
 $-2 \quad -2$

$-5 = \frac{a}{11} \cdot 11$

$-55 = a$

6. $\frac{c+1}{-3} = -21 \cdot -3$
 $-3 \cdot$

$c + 1 = +63$
 $-1 \quad -1$

$c = 62$

13. $-34 = 6m - 4$
 $+4 \quad +4$

$\frac{-30}{6} = \frac{6m}{6}$

$-5 = m$

16. $\frac{f}{-7} - 8 = 2$
 $+8 \quad +8$

$-7 \cdot \frac{f}{-7} = 10 \cdot -7$

$f = -70$

19. $\frac{n-2}{7} = 2 \cdot 7$
 $7 \cdot$

$n - 2 = 14$
 $+2 \quad +2$

$n = 16$

22. $\frac{22-w}{3} = -7 \cdot 3$
 $3 \cdot$

$22 - w = -21$
 $-22 \quad -22$

$-w = -43$
 $w = 43$