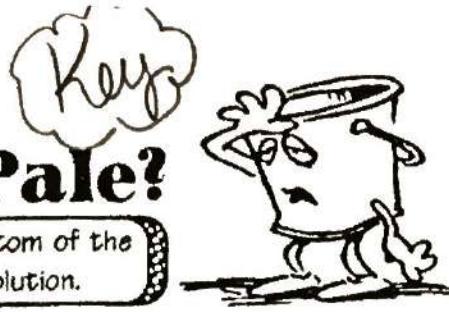


# Why Was the Pail Pale?

Solve each equation or problem and find your answer at the bottom of the page. Write the letter of the exercise in the box containing its solution.



**E**  $5x + 2x - 9 = 40$

$$\begin{array}{r} 7x - 9 = 40 \\ +9 \quad +9 \\ \hline 7x = 49 \\ \hline 7 \quad 7 \end{array}$$

**A**  $3a - 7a + 12 = 32$

$$\begin{array}{r} -4a + 12 = 32 \\ -12 \quad -12 \\ \hline -4a = 20 \end{array}$$

$a = -5$

**U**  $\frac{5}{3}x - \frac{4}{3}x - 1 = 8$

$$\frac{1}{3}x - 1 = 8$$

$\frac{1}{3}x = 9$

$x = 27$

**E**  $4p - 13p - p = -150$

$$\begin{array}{r} -10p = -150 \\ -10 \quad -10 \\ \hline p = 15 \end{array}$$

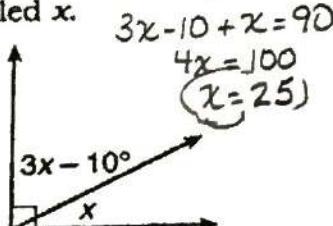
$p = 15$

**T**  $\frac{5}{7}m - 2 - \frac{6}{7}m = -13$

$$\begin{array}{r} -\frac{1}{7}m - 2 = -13 \\ +2 \quad +2 \\ \hline -\frac{1}{7}m = -11 \end{array}$$

$m = 77$

**B** The sum of the measures of two complementary angles is  $90^\circ$ . Find the measure of the angle labeled  $x$ .



**T**  $ly - 4y + 3 = -30$

$$\begin{array}{r} -3y + 3 = -30 \\ -3 \quad -3 \\ \hline -3y = -33 \end{array}$$

$y = 11$

**L**  $-5u + 4 + 8u = 43$

$$\begin{array}{r} 3u + 4 = 43 \\ 3u = 39 \end{array}$$

$u = 13$

**I**  $-\frac{3}{5}b + 7 + \frac{2}{5}b = 19$

$$\begin{array}{r} -\frac{1}{5}b + 7 = 19 \\ -\frac{1}{5}b = 12 \\ \hline -5 \cdot \frac{1}{5}b = 12 \cdot -5 \end{array}$$

$b = -60$

**A**  $35 + \frac{5}{2}y - \frac{1}{2}y = 3$

$$\begin{array}{r} 2y + 35 = 3 \\ 2y = -32 \\ \hline 2 \quad 2y = -16 \end{array}$$

$y = -8$

**W**  $\frac{1}{8}d - 4 + \frac{3}{8}d - 4 = 5$

$$\begin{array}{r} \frac{1}{2}d - 8 = 5 \\ \frac{2}{1} \cdot \frac{1}{2}d = \frac{13}{1} \cdot \frac{2}{1} \end{array}$$

$d = 26$

**T**  $\frac{9}{10}v - 6 = \frac{11}{6}$

$$\begin{array}{r} \frac{10}{1} \cdot \frac{1}{10}v = \frac{5}{1} \cdot \frac{10}{1} \\ 10v = 50 \end{array}$$

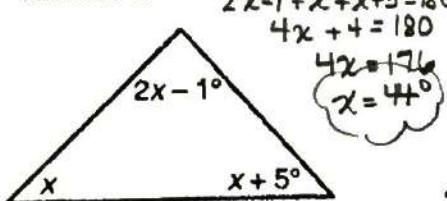
$v = 50$

**S**  $70 - q - q - 2q = 80$

$$\begin{array}{r} -4q + 70 = 80 \\ -4q = 10 \end{array}$$

$q = \frac{10}{4} = -\frac{5}{2} = -2.5$

**K** The sum of the measures of the three angles of a triangle is  $180^\circ$ . Find the measure of the angle labeled  $x$ .



-60	11	-8	26	-5	-2.5	2	9	36°	-16	31	110°	7	50	13	95°	25°	27	-1	44°	15	77
I	T		W	A	S	N	T	A	W	E	L	L				B	U	C	K	E	T