

1.2 Solving Multi-step

Equations

p.g. 14-15 #3-13, 15, 17

3.

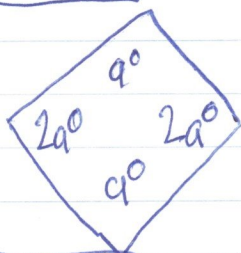


$$k = 45$$

$$\begin{array}{r} 710 \\ -180 \\ \hline 45 \\ 135 \end{array}$$

$$\begin{array}{r} 135 \overline{) 345} \\ \underline{120} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

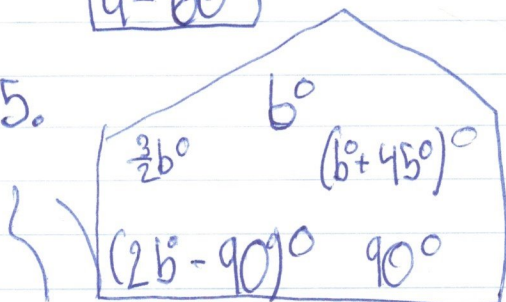
4.



$$a = 60^\circ$$

$$\begin{aligned} a^\circ + a^\circ + 2a^\circ + 2a^\circ \\ 2a^\circ + 2a^\circ + 2a^\circ \\ 4a^\circ + 2a^\circ \\ 6a^\circ \end{aligned}$$

5.



$$b = 90^\circ$$

$$b^\circ + \frac{3}{2}b + (b+45) + 2b - 90 + 90 = 540$$

$$2\frac{1}{2}b + (b+45) + 2b - 90 + 90 = 540$$

$$2\frac{1}{2}b + (b+45) + 2b = 540$$

$$4\frac{1}{2}b + (b+45) = 540$$

$$5\frac{1}{2}b + 45 = 540$$

$$5.5b + 45 = 540$$

$$\begin{array}{r} 4310 \\ -540 \\ \hline 45 \\ 495 \end{array}$$

$$\begin{array}{r} 5.5 \overline{) 495} \\ \underline{495} \\ 0 \end{array}$$

$$\begin{array}{r} 455 \\ \times 90 \\ \hline 40950 \end{array}$$

LOL

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$$6. \quad 10x + 2 = 32$$

$$\begin{array}{r} 10x = 30 \\ \hline 10 \quad 10 \end{array}$$

$$\boxed{x = 3}$$

$$7. \quad 19 - 4c = 7$$

$$\begin{array}{r} -4c = -2 \\ \hline -4 \quad -4 \end{array}$$

$$\boxed{c = \frac{1}{2}}$$

$$8. \quad 1.1x + 1.2x - 5.4 = -10$$

$$\begin{array}{r} 2.3x - 5.4 = -10 \\ \hline +5.4 \quad +5.4 \end{array}$$

$$\begin{array}{r} 2.3x = -4.6 \\ \hline 2.3 \quad 2.3 \end{array}$$

$$\boxed{x = -2}$$

$$9. \quad \frac{2}{3}h - \frac{1}{3}h + 11 = 8$$

$$\begin{array}{r} \frac{1}{3}h + 11 = 8 \\ \hline -11 \quad -11 \end{array}$$

$$\frac{1}{3}h = -3$$

$$\begin{array}{r} \frac{1}{3}h = -3 \\ \hline \frac{1}{3} \quad \frac{1}{3} \end{array}$$

$$\frac{1}{3} \times \frac{3}{1} = \frac{-3 \times 3}{1 \times 1} = -9$$

$$\boxed{h = -9}$$

$$10. \quad 6(5 - 8v) + 12 = -54$$

$$\begin{array}{r} 30 - 48v + 12 = -54 \\ \hline -30 \quad -30 \end{array}$$

$$\begin{array}{r} -48v + 12 = -84 \\ \hline -12 \quad -12 \end{array}$$

$$\begin{array}{r} -48v = -896 \\ \hline -48 \quad -48 \end{array}$$

$$\boxed{v = 2}$$

$$11. \quad 21(2 - x) + 12x = 44$$

$$42 - 21x + 12x = 44$$

$$\begin{array}{r} 42 - 9x = 44 \\ \hline -42 \quad -42 \end{array}$$

$$\begin{array}{r} -9x = 2 \\ \hline -9 \quad -9 \end{array}$$

$$\boxed{x = -\frac{2}{9}}$$

1.2 Solving Multi-step Equations

12. When they were doing distributive property, they forgot that $-y$ was a negative. Some when multiplying they got a negative $2y$ not a positive one.

$$-2(-y) + 4 = -4$$

$$\begin{array}{r} +4 \\ -4 \end{array} + 2y + 4 = -4$$

$$\begin{array}{r} 2y + 4 = -18 \\ -4 \quad -4 \end{array}$$

$$\begin{array}{r} 2y = -22 \\ 2 \quad 2 \end{array}$$

$$\boxed{y = -11}$$

13. $(15n + 85 = 4) = 385$

$$\begin{array}{r} 15n + 85 = 385 \\ -85 \quad -85 \end{array}$$

$$\begin{array}{r} 15n = 300 \\ 15 \quad 15 \end{array}$$

$$\boxed{n = 20}$$

$$\begin{array}{r} 1 \ 2580 \\ + 2920 \\ \hline 5500 \end{array}$$

$$\begin{array}{r} 8 \ 10 \\ - 9000 \\ \hline 5500 \\ \hline 3500 \end{array}$$

15. $4 = b - 24$

$$\frac{24}{4} = b + 3$$

$$6 = b + 3$$

$$\begin{array}{r} -3 \quad -3 \\ \hline 3 = b \end{array}$$

17. $\frac{2580 + 2920 + x}{3} = 3000$

$$\frac{5500 + x}{3} = 3000$$

$$\begin{array}{r} *3 \quad *3 \\ \hline 5500 + x = 9000 \end{array}$$

$$\boxed{x = 3,500}$$