

Review Solutions for some questions:

$$\begin{aligned} \textcircled{1} \quad 8x + 12 &= 68 \\ 8x &= 56 \\ x &= 7 \end{aligned}$$

$$\begin{aligned} 112 + y &= 180 \\ y &= 68^\circ \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 4m - 5 + 3m + 17 &= 180 \\ 7m + 12 &= 180 \\ 7m &= 168 \\ m &= 24 \end{aligned}$$

$$\begin{aligned} 4n + 11 + 5n - 11 &= 180 \\ 9n &= 180 \\ n &= 20 \end{aligned}$$

Don't mix n & m in
a single equation!

$$\begin{aligned} \textcircled{3} \quad 12 &= y + 3 \\ \boxed{9} &= y \end{aligned}$$

$$\begin{aligned} 6x - 7 &= 2x + 9 \\ 4x &= 16 \\ \boxed{x} &= 4 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 3x + 9 &= 5x - 5 \\ 14 &= 2x \\ \boxed{7} &= x \end{aligned}$$

$$\begin{aligned} 5y &= 7y - 10 \\ -2y &= -10 \\ \boxed{y} &= 5 \end{aligned}$$

⑤ skip this one!

$$\begin{aligned} \textcircled{12} \quad xF &\cong xM \\ 88 &= 3x - 8 \\ 96 &= 3x \\ \boxed{32} &= x \end{aligned}$$

$$\begin{aligned} xL &\cong xG \\ 21 &= 2z + 7 \\ 14 &= 2z \\ \boxed{7} &= z \end{aligned}$$

$$\textcircled{17} \quad \frac{4}{11} = \frac{x}{x+12}$$

$$11x = 4(x+12)$$

$$11x = 4x + 48$$

$$7x = 48$$

$$\boxed{x = 48/7 \approx 6.86}$$

$$\textcircled{18} \quad \frac{x}{2} = \frac{15}{5}$$

$$5x = 30$$

$$\boxed{x = 6}$$

$$\textcircled{20} \quad 2(x+19) = x+29$$

$$2x+38 = x+29$$

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

$$x+38 = 29$$

$$\begin{array}{r} -38 \\ -38 \end{array}$$

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