

Mathematics

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(Chapter - 2) (Linear Equations in One Variable) (Exercise 2.2)
(Class - VIII)

Question 8:

Simplify and solve the following linear equation: $15(y-4)-2(y-9)+5(y+6)=0$

Answer 8:

$$\begin{aligned}15(y-4)-2(y-9)+5(y+6) &= 0 \quad \Rightarrow 15y-60-2y+18+5y+30=0 \\ \Rightarrow 18y-12 &= 0 \quad \Rightarrow 18y=12 \quad \Rightarrow y=\frac{12}{18} \quad \Rightarrow y=\frac{2}{3}\end{aligned}$$

To check:

$$\begin{aligned}15(y-4)-2(y-9)+5(y+6) &= 0 \\ \Rightarrow 15\left(\frac{2}{3}-4\right)-2\left(\frac{2}{3}-9\right)+5\left(\frac{2}{3}+6\right) &= 0 \quad \Rightarrow 15\left(\frac{2-12}{3}\right)-2\left(\frac{2-27}{3}\right)+5\left(\frac{2+18}{3}\right)=0 \\ \Rightarrow 15 \times \frac{-10}{3}-2 \times \frac{-25}{3}+5 \times \frac{20}{3} &= 0 \quad \Rightarrow -50+\frac{50}{3}+\frac{100}{3}=0 \\ \Rightarrow -50+\frac{50+100}{3} &= 0 \quad \Rightarrow -50+\frac{150}{3}=0 \\ \Rightarrow -50+50=0 &\Rightarrow 0=0 \quad \Rightarrow \text{L.H.S.} = \text{R. H. S.}\end{aligned}$$

Therefore, it is correct.

Question 9:

Simplify and solve the following linear equation: $3(5z-7)-2(9z-11)=4(8z-13)-17$

Answer 9:

$$\begin{aligned}3(5z-7)-2(9z-11) &= 4(8z-13)-17 \quad \Rightarrow 15z-21-18z+22=32z-52-17 \\ \Rightarrow -3z+1 &= 32z-69 \quad \Rightarrow -3z-32z=-69-1 \quad \Rightarrow -35z=-70 \quad \Rightarrow z=\frac{-70}{-35}=2\end{aligned}$$

To check:

$$\begin{aligned}3(5z-7)-2(9z-11) &= 4(8z-13)-17 \quad \Rightarrow 3(5 \times 2-7)-2(9 \times 2-11)=4(8 \times 2-13)-17 \\ \Rightarrow 3(10-7)-2(18-11) &= 4(16-13)-17 \quad \Rightarrow 3 \times 3-2 \times 7=4 \times 3-17 \\ \Rightarrow 9-14 &= 12-17 \quad \Rightarrow -5=-5 \quad \Rightarrow \text{L.H.S.} = \text{R. H. S.}\end{aligned}$$

Therefore, it is correct.

Question 10:

Simplify and solve the following linear equation: $0.25(4f-3)=0.05(10f-9)$

Answer 10:

$$\begin{aligned}0.25(4f-3) &= 0.05(10f-9) \\ \Rightarrow 1.00f-0.75 &= 0.50f-0.45 \quad \Rightarrow 1.00f-0.50f=-0.45+0.75 \\ \Rightarrow 0.50f &= 0.3 \quad \Rightarrow f=\frac{0.3}{0.50} \quad \Rightarrow f=0.6\end{aligned}$$

To check:

$$\begin{aligned}0.25(4f-3) &= 0.05(10f-9) \\ \Rightarrow 0.25(4 \times 0.6-3) &= 0.05(10 \times 0.6-9) \\ \Rightarrow 0.25(2.4-3) &= 0.05(6.0-9) \quad \Rightarrow 0.25 \times (-0.6)=0.05 \times (-3) \\ \Rightarrow -0.150 &= -0.150 \\ \Rightarrow \text{L.H.S.} &= \text{R. H. S.}\end{aligned}$$

Therefore, it is correct.

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S.K. Gupta & Anubhuti Gangal



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