

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:

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

To check:

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

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:

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

To check:

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

Therefore, it is correct.

Question 10:

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

Answer 10:

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

To check:

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

Therefore, it is correct.

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S.K. Gupta & Anubhuti Gangal

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