



PING YI SECONDARY SCHOOL
Perseverance Yields Success

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Class 312

Subject maths practice 26 pg 53

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3a.	$\frac{2}{x} + 4$ $= \frac{2}{x} + \frac{4 \times x}{1 \times x}$ $= \frac{2+4x}{x}$ ✓	$\frac{5}{8} + \frac{3}{2} \times 4$ $= \frac{5}{8} + \frac{5+2}{2}$ $= \frac{5+8}{8} = \frac{13}{8}$ ✓
3b)	$\frac{5}{8} + \frac{3 \times 8}{x \times 8}$ $= \frac{5x+24}{8x}$ ✓	
3c)	$\frac{2x}{2x} - \frac{1}{3y}$ $= \frac{6x-1}{2y}$ ✓	$\frac{y}{y} - \frac{3y}{3}$ $= \frac{1-3}{1}$ $= -2$
3d.	$\frac{7}{10y} - \frac{2 \times 2}{5y \times 2}$ $= \frac{7-4}{10y}$ $= \frac{3}{10y}$ ✓	$\frac{5}{5} - \frac{10y}{10y}$ $= \frac{5-10y}{10y}$ $= \frac{5-10y}{10y}$
3e.	$\frac{2}{2x} + \frac{1 \times 2x}{5y \times 2x}$ $= \frac{15y+2x}{10xy}$ ✓	$\frac{5}{5} - \frac{10y}{10y}$ $= \frac{5-10y}{10y}$ $\therefore \text{L.C.M.} = 10y$
3f.	$\frac{1}{6x} - \frac{4 \times 2}{9xy \times 2}$ $= \frac{3y-8}{18xy}$ ✓	$\frac{3}{3} - \frac{8xy}{9xy}$ $= \frac{3-8xy}{9xy}$
4a)	$\frac{1}{x+4} - \frac{x}{x+4}$ $= \frac{1-x}{x+4}$ ✓	$\frac{3}{3} - \frac{8xy}{9xy}$ $= \frac{3-8xy}{9xy}$
4b.	$\frac{3}{a+1} + \frac{4}{a}$ $= \frac{3a+4(a+1)}{a(a+1)}$ $= \frac{3a+4a+4}{a(a+1)}$ $= \frac{7a+4}{a(a+1)}$ ✓	$\frac{3}{3} - \frac{8xy}{9xy}$ $= \frac{3-8xy}{9xy}$
	$\frac{3}{a+1} + \frac{4}{a}$ $= \frac{3a+4(a+1)}{a(a+1)}$ $= \frac{3a+4a+4}{a(a+1)}$ $= \frac{7a+4}{a(a+1)}$ ✓	$\frac{3}{3} - \frac{8xy}{9xy}$ $= \frac{3-8xy}{9xy}$

$$4c. \frac{8}{5(x+2)} - \left(\frac{1}{x+2}\right) \times 5$$

$$= \frac{8-5}{5(x+2)}$$

$$= \frac{3}{5(x+2)}$$

$$(x+1) \times \frac{1}{x+1} \left[\frac{1}{(x+1)^2} \right]$$

$$= \frac{1}{(x+1)^2}$$

$$\frac{(x+1), (x+1)^2}{(x+1), (x+1)(x+1)}$$

$$\frac{1}{1, (x+1)}$$

$$\therefore \text{LCM} = (x+1)(x+1)$$

$$= (x+1)^2$$

$$(x+1) - 1$$

$$-1(x+1)$$

$$-1x^2 - 1$$

$$-1x - 1$$

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