

6. let Hari's present age = $5x$ years
 Harveys present age = $7x$ years

according to condition

$$\frac{5x+4}{7x+4} = \frac{3}{4}$$

$$\Rightarrow 20x+16 = 21x+12$$

$$\Rightarrow 20x-21x = 12-16$$

$$\Rightarrow -x = -4$$

$$\Rightarrow x = 4$$

$$\text{Hari's present age} = 5 \times 4 = 20 \text{ years}$$

$$\text{Harveys present age} = 7 \times 4 = 28 \text{ years}$$

7. let numerator = x

$$\text{denominator} = x+8$$

$$\therefore \text{Fraction} = \frac{x}{x+8}$$

acc. to con.

$$\frac{x+17}{x+8-1} = \frac{3}{2}$$

$$\Rightarrow \frac{x+17}{x+7} = \frac{3}{2}$$

$$\Rightarrow 2x+34 = 3x+21$$

$$\Rightarrow -x = -13$$

$$\Rightarrow x = 13$$

Fraction

$$= \frac{13}{13+8}$$

$$= \frac{13}{21}$$