

1. let required no. =  $x$   
according to condition

$$8\left(x - \frac{5}{2}\right) = 3x$$

$$\Rightarrow \overset{4}{\cancel{8}} \left( \frac{2x-5}{\cancel{2}} \right) = 3x$$

$$\Rightarrow 8x - 20 = 3x$$

$$\Rightarrow 8x - 3x = 20$$

$$\Rightarrow 5x = 20$$

$$\Rightarrow x = \frac{20 \overset{4}{\cancel{4}}}{\underset{-5}{\cancel{5}} \cdot 1}$$

$\therefore$  required no. = 4

2. let smaller number =  $x$   
larger number =  $5x$   
according to condition

$$5x + 21 = 2(x + 21)$$

$$\Rightarrow 5x + 21 = 4x + 42$$

$$\Rightarrow 5x - 4x = 42 - 21$$

$$\Rightarrow x = 21$$

$\therefore$  Smaller no. =  $x = 21$

larger no. =  $5x$

$$= 5 \times 21$$

$$= 105$$