

11(A)

1909 ii) 4:6

$$\frac{4}{6}$$

$$= \frac{2}{3} = 2:3$$

ii) 48:54

$$\frac{48}{54} \text{ Required ratio} = \frac{24^8}{27^9}$$

$$= \frac{25}{27} = 25:27$$

iii) 200:250

$$\frac{200}{250} \text{ Required ratio} = \frac{200^4}{25^5}$$

$$= \frac{100}{125} = \frac{100 \times 25}{125}$$

6) i) 5 kg to 800 gm

$$5 \times 1000 \text{ g} = 5000 \text{ g}$$

$$= \frac{5000 \text{ g}}{800 \text{ g}}$$

$$= \frac{5000}{800} = \frac{2000500}{400} = 2000500 : 400$$

ii) 30 cm : 2 m 5 kg 800 gm

$$\frac{25}{5000} \text{ gm} : \frac{24}{1000} \text{ gm}$$

$$25 : 4$$

iii) 30 cm : 2 m

$$1 \text{ m} = 100 \text{ cm}$$

$$\frac{200}{30} = 3 : 20$$

iii) 3 m : 90 cm

$$1 \text{ m} = 100 \text{ cm}$$

$$\frac{9000}{3} : \frac{300}{3}$$

iv) 2Y : 9M

$$1 \text{ years} = 12 \text{ months} \quad 2 \text{ years} = 24$$

$$\frac{24}{9} : \frac{24}{9} = 8 : 3$$

v) 1 hour = 45 min

$1 \text{ hour} = 60 \text{ minutes}$ $1 \text{ min} = 60 \text{ seconds}$
 $\frac{60}{45} = \frac{4}{3}$ **4:3**

vi) 4 min = 45 sec

$1 \text{ minutes} = 60 \text{ seconds} \times 4 = 240 \text{ seconds}$
 $\frac{240}{45} = \frac{16}{3}$ **16:3**

ci) i) $1\frac{1}{2} : 2\frac{1}{2} = 3:5$

ii) $3\frac{1}{2} : 7 =$

✱

iii) 28:42:15

~~iv) $x^2 : 4x^2 = x : 4$~~
 $\frac{x^2}{4x} = \frac{x}{4}$

$x : 4$

$$vi) \quad \cancel{2.5} : \cancel{1.5}$$

$$2.5 : 5$$

$$= 1 : 2$$

$$vi) \quad \cancel{2.5} : \cancel{5}$$

$$\cancel{2.5} \times 10 = 2.5 : 50$$

$$\cancel{5} \times 10$$

$$vi) \quad 2.5 : 1.5$$

$$\frac{25^5}{15^3} = 5 : 3$$

$$vii) \quad 2.5 : 5$$

$$\frac{25^5}{5^1} = 5 : 1 \quad \frac{25^5}{50^{102}} = 1 : 2$$

2) 80m long 60m wide

$$\begin{array}{r} 40 \quad 20 \\ \cancel{80} \\ 60 \\ \hline 90 \quad 15 \end{array} \quad = \quad \begin{array}{r} 16 \\ \cancel{80} \\ 60 \\ \hline 90 \quad 12 \end{array}$$

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34 i) False

ii) True

iii) true

49 15:35

$$\frac{15^3}{35^7} = 3:7 = \text{Yes}$$

5 Yes

64 3:5 : 475 : 28

350 : 475 : 280

70 : 95 : 56

71 5 dozen : 2 score

60 : 40

3:2

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