

Q1: ans i) $\frac{42}{83} = \frac{2}{3}$

ans v) 1 hr = 60 min

$\Rightarrow 45$ min

ans ii) $\frac{48 \times 24}{54 \times 27} = \frac{248}{279} = \frac{8}{9}$

$\Rightarrow \frac{60 \times 12}{459} = \frac{12}{9}$

ans iii) $\frac{200 \times 100}{250 \times 2} = \frac{2004}{255} = \frac{4}{5}$

$\Rightarrow 12:9$

Q2: ans i) 5 kg = 5000 g

ans vi) 4 min = 240 sec

$\Rightarrow 800$ g

$\Rightarrow 45$ sec

$\Rightarrow \frac{5000}{800} = 6.25$

$\Rightarrow \frac{240 \times 49}{459} = \frac{4816}{93} = 16:3$

$\Rightarrow \frac{5000}{800} = 6.25$

$\Rightarrow 16:3$

$\Rightarrow \frac{25}{4} = 25:4$

Q3: ans i) $\frac{3}{2} : \frac{5}{2}$

$\frac{3}{2}$

ans ii) 2 m = 200 cm

$\Rightarrow 30$ cm

$\Rightarrow \frac{3 \times 2}{2 \times 5}$

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

$\Rightarrow \frac{3}{5}$

$\Rightarrow \frac{20}{3}$

$\Rightarrow 3:20$

$\Rightarrow 3:5$

ans iii) 3 m = 300 cm

ans ii) $\frac{7}{2} : 7$

$\Rightarrow 90$ cm

$\Rightarrow \frac{7}{2} : 7$

$\Rightarrow \frac{300}{90}$

$\Rightarrow \frac{7}{2} \times \frac{1}{7}$

$\Rightarrow \frac{30}{9}$

$\Rightarrow \frac{1}{2}$

$\Rightarrow \frac{10}{3} = 10:3$

ans iv) 2 yrs = 24 months

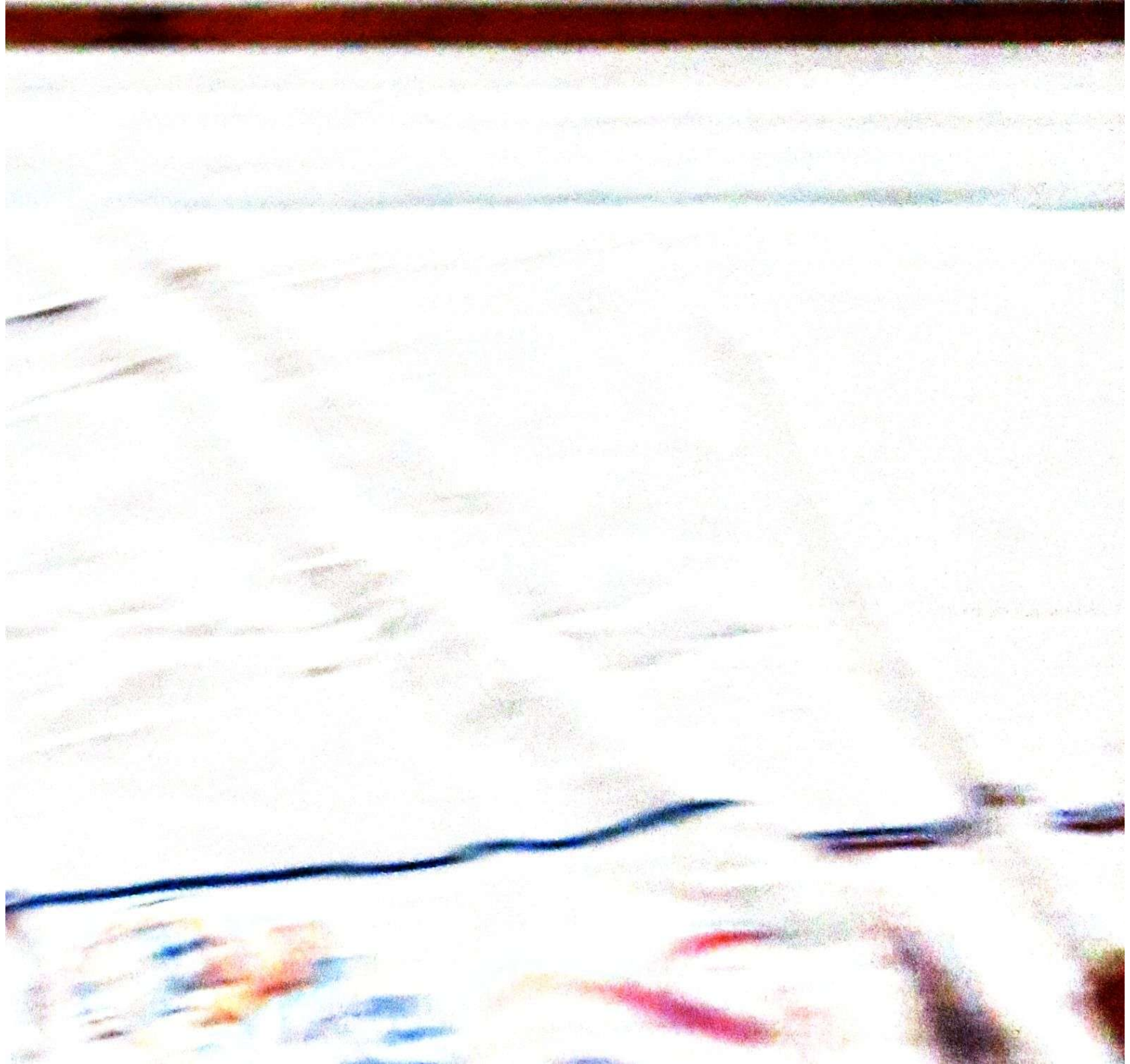
ans iii) $\frac{7}{3} : \frac{7}{2} : \frac{5}{4}$

9 months

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

$\Rightarrow \frac{7 \times 2}{3} \times \frac{4}{7}$

$\Rightarrow \frac{2 \times 4}{3 \times 5} = \frac{2 \times 2 \times 2}{3 \times 5}$



$$\Rightarrow \frac{7}{4} \times \frac{4}{12} : \frac{7}{2} \times \frac{6}{12} : \frac{5}{4} \times \frac{3}{12}$$

$$\Rightarrow 28:42:15$$

$$iv) \frac{2x}{4x} : \frac{x}{4}$$

$$\Rightarrow \frac{2x}{4}$$

$$v) \frac{25}{10} : \frac{15}{10}$$

$$\Rightarrow \frac{25^5}{10} \times \frac{10}{15 \cdot 3} = \frac{5}{3}$$

$$\Rightarrow 5:3$$

$$vi) \frac{25}{10} : \frac{5}{1}$$

$$\Rightarrow \frac{25^5}{10} \times \frac{1}{5 \cdot 1}$$

$$\Rightarrow \frac{5^1}{102} \times \frac{1}{1} = \frac{1}{2}$$

$$\Rightarrow 1:2$$

Q2. length of the field = 80 m

width of the field = 60 m

The ratio of the width to its length is $\frac{360}{480} = \frac{3}{4}$

The ratio of the width to its length is 3:4.

Q3. ans i) F

ans ii) T

ans iii) T

A4. Yes

~~AB~~

A5. Yes

A6. 3.5m = ~~350cm~~

$$\Rightarrow 475 \text{ cm} = 4.75 \text{ m}$$

$$\Rightarrow 2.8 \text{ m} = ~~280cm~~$$

$$\Rightarrow \frac{35}{10} : \frac{475}{100} : \frac{28}{10} = \frac{35}{10} : \frac{19}{4} : \frac{28}{10}$$

$$\Rightarrow \text{L.C.M} = 20$$

$$\Rightarrow \frac{35 \times 2^2}{10} : \frac{19 \times 5}{4} : \frac{28 \times 2^2}{10}$$

$$\Rightarrow 14 : 23.75 : 56$$

A7. 5 dozen = ~~60~~ 12 x 5 = 60

2 scores = 2 x 20 = 40

Ratio between 5 dozens and 2 scores = ~~60~~ 3 or ~~60~~ 3 : 40

Ratio = 3 : 2