

# Fractions

## Worksheet

1. (i) whole numbers

(ii) reduced or <sup>standard</sup> simple form simplest form

(iii)

(iv) smaller

(v) bigger

(vi) decimal fraction

(vii) smaller, bigger

2. (i) T

(ii) ~~T~~ F

(v) ~~iii~~ F

(vi) F

(vii) T

3. 12 inches = 1 foot (ft)

so, 549 inches =

$$\begin{array}{r} 45 \\ 12 \overline{) 549} \\ \underline{-480} \\ 69 \\ \underline{-60} \\ 9 \end{array}$$

45 ft 9 inches

$$\begin{array}{r} 89 \\ \times 36 \\ \hline 534 \\ 3240 \\ \hline 3192 \end{array}$$

$$\begin{array}{r} 21 \\ \times 89 \\ \hline 189 \\ 1680 \\ \hline 1869 \end{array}$$

So, 549 inches = 45 foot and 9 inches

$$\begin{array}{r} 1219 \\ \times 534 \\ \hline 178 \\ 356 \\ \hline 64816 \end{array}$$

4. total fruits bought by a fruit seller = 712

out of 712 fruits  $\frac{3}{4}$  are apples.  
all the apples<sup>4</sup>  
out of 712 fruits  $\frac{1}{3}$  are rotten.

$$\begin{array}{r} 31 \\ \times 121 \\ \hline 121 \\ 310 \\ 3100 \\ \hline 3751 \end{array}$$

He sold all the good apples at ₹  $5\frac{1}{4}$  each.

so, total no of apples =  $\frac{3}{4} \times 712 = 534$

$$\begin{array}{r} 178 \\ \times 31 \\ \hline 178 \\ 534 \\ \hline 5518 \end{array}$$

so, apples rotten =  $\frac{1}{3} \times 534 = 178$   
good apples =  $534 - 178 = 356$

$$\begin{array}{r} 178 \\ \times 3 \\ \hline 534 \end{array}$$

so, total money he received by selling the good apples =  $5\frac{1}{4} \times 356$

$$\begin{array}{r} 178 \\ \times 21 \\ \hline 356 \\ 3751 \\ \hline 3751 \end{array}$$

~~$= \frac{21}{4} \times 178 = 3738$~~   $= \frac{21}{4} \times 356 = 1869$

$$\begin{array}{r} 178 \\ \times 3 \\ \hline 534 \end{array}$$

So, he received ₹ 3738. ₹ 1869.

$$\begin{array}{r} 178 \\ \times 2 \\ \hline 356 \end{array}$$

5. distance travelled by it consuming  $1\frac{3}{5}$  l of petrol =

$$\begin{array}{l} 31\frac{1}{4} \times 1\frac{3}{5} \\ = \frac{125}{4} \times \frac{82}{5} = 50 \text{ km} \end{array}$$

$$\begin{array}{r} 178 \\ \times 21 \\ \hline 356 \\ 3751 \\ \hline 3751 \end{array}$$

$$\begin{array}{r} 17 \\ 150 \overline{) 344} \\ \underline{-300} \\ 44 \\ \underline{-36} \\ 8 \end{array}$$

$$\begin{array}{r} 172 \\ 2 \overline{) 344} \\ \underline{-211} \\ 133 \\ \underline{-133} \\ 0 \end{array}$$

$$\begin{array}{r} 150 \overline{) 344} \\ \underline{-300} \\ 44 \\ \underline{-36} \\ 8 \end{array}$$

$$6. \quad l = 23\frac{2}{5} \text{ m}$$

$$b = 16\frac{2}{3} \text{ m}$$

$$a = l \times b$$

$$= \left( 23\frac{2}{5} \times 16\frac{2}{3} \right) \text{ m}^2$$

$$= \left( \frac{117}{5} \times \frac{50}{3} \right) \text{ m}^2$$

$$= 390 \text{ m}^2$$

$$\begin{array}{r} 23 \\ 5 \overline{) 117} \\ \underline{-10} \\ 7 \\ \underline{-6} \\ 1 \end{array}$$



$$\frac{1}{4\frac{2}{7}} + \frac{1}{3\frac{11}{13}} + \frac{1}{\frac{5}{9}}$$

$$\left( 1 \div 4\frac{2}{7} \right) + \left( 1 \div 3\frac{11}{13} \right) + \left( 1 \div \frac{5}{9} \right)$$

$$= \left( 1 \div \frac{30}{7} \right) + \left( 1 \div \frac{50}{13} \right) + \left( 1 \div \frac{5}{9} \right)$$

$$= \left( 1 \times \frac{7}{30} \right) + \left( 1 \times \frac{13}{50} \right) + \left( 1 \times \frac{9}{5} \right)$$

$$\frac{7}{30} + \frac{13}{50} + \frac{9}{5} = \frac{35 + 39 + 270}{150} = \frac{344}{150} = \frac{172}{75} = 2\frac{22}{75}$$

$$\begin{array}{r} 5 \overline{) 30,50,5} \\ \underline{26,10,1} \\ 3,5,1 \end{array}$$

$$\begin{array}{r} 99 \\ +11 \\ \hline 110 \\ +35 \\ \hline 145 \\ +39 \\ \hline 184 \\ +270 \\ \hline 344 \end{array}$$

8. a.  $3 \times \frac{1}{4}$

9. a.  $4 \times \frac{1}{4}$

10. total wheat = 24 kg

total wheat consumed =  $\frac{5}{6} \times 24 = 20$  kg

∴, 4 kg of wheat is still left.