Fractions

Worksheet

Date ______
Page ______

1.(i) whole numbers

(ii) reduced or ~~simple~~ standard ~~form~~ simplest form

(iii)

(iv) smaller

(v) bigger

(vi) decimal fraction

(vii) smaller, bigger

2.(i) T

(ii) F

(v) ~~(iii)~~ F

(vi) F

(vii) T

3. 12 inches = 1 foot (ft)

so, 549 inches =

$$\begin{array}{r} 45 \\ 12\,\overline{)549} \\ -48 \\ \hline 69 \\ -60 \\ \hline 9 \end{array}$$

45 ft 9 inches

So, 549 inches = 45 foot and 9 inches

4. total fruits bought by a fruitseller = 712

Out of 712 fruits $\frac{3}{4}$ are apples.
(all the apples)

Out of 712 fruits $\frac{1}{3}$ are rotten.

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

so, total no of apples = $\frac{3}{4} \times 712^{178} = 534$

so, apples rotten = $\frac{1}{3} \times 534^{178} = 178$

good apples = $534 - 178 = 356$

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

$= \frac{21}{4} \times 178 = 3738 = \frac{21}{4} \times 356^{89} = 1869$

So, he received ~~₹3738~~. ₹1869.

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

$$31\frac{1}{4} \times 1\frac{3}{5}$$

$$= \frac{125}{4} \times \frac{8}{5} = 50 \text{ km}$$

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

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

$a = l \times b$

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

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

$= 390\ m^2$

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

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

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

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

$= \frac{7}{30} + \frac{13}{50} + \frac{9}{5} = \frac{35 + 39 + 270}{150} = \frac{344}{150} = \frac{172}{95} = 1\frac{77}{95}$

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

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

10. total wheat = 24 kg

total wheat consumed = $\frac{5}{6_1} \times 24^4 = 20$ kg

so, 4 kg of wheat is still left.