Fractions Revision

1. (a) Write $\frac{3}{8}$ as a percentage.

$\frac{1}{2} = 50\%$

$\frac{1}{4} = 25\%$

$\frac{1}{8} = 12.5\%$ → $\frac{3}{8} = 37.5\%$

Answer 37.5 %

(2)

(b) Work out $2\frac{3}{5} \div 6$

$= \frac{13}{5} \div \frac{6}{1} = \frac{13}{5} \times \frac{1}{6} = \frac{13}{30}$

Answer $\frac{13}{30}$

(2)

(c) Work out $3\frac{3}{5} - \frac{1}{4}$

$3\frac{3}{5} - \frac{1}{4} = 3\frac{12}{20} - \frac{5}{20} = 3\frac{7}{20}$

Answer $3\frac{7}{20}$

(2)

(d) Work out $2\frac{1}{3} + 3\frac{7}{8}$

$2 + 3 = 5$

$\frac{1}{3} + \frac{7}{8} = \frac{8}{24} + \frac{21}{24} = \frac{29}{24} = 1\frac{5}{24}$

Answer $6\frac{5}{24}$

(3)

2. Work out $\frac{3}{8} \div \frac{1}{3}$

$= \frac{3}{8} \times \frac{3}{1} = \frac{9}{8} = 1\frac{1}{8}$

Answer $1\frac{1}{8}$

(Total 2 marks)

3. Which is larger, $\frac{7}{8}$ or 78% ?

Show how you decide.

$7 \div 8 = 8\overline{)7.000}$ 0.875

$\frac{7}{8} = 87.5\%$

Answer ..... $\frac{7}{8}$ is larger .....

(2)
(Total 2 marks)

4. Work out $1\frac{3}{4} \div 1\frac{4}{11}$

$= \frac{7}{4} \div \frac{15}{11} = \frac{7}{4} \times \frac{11}{15} = \frac{77}{60} = 1\frac{17}{60}$

Answer ..... $1\frac{17}{60}$ .....

(Total 3 marks)

5. Work out $4\frac{2}{3} \div 1\frac{3}{4}$

$= \frac{14}{3} \div \frac{7}{4} = \frac{14}{3} \times \frac{4}{7} = \frac{56}{21} = 2\frac{14}{21} = 2\frac{2}{3}$

Answer ..... $2\frac{2}{3}$ .....

(3)
(Total 6 marks)

6. There are 24 passengers on a bus.

$\frac{1}{4}$ of the passengers are men.

$\frac{1}{3}$ of the passengers are women.

The rest of the passengers are children.

How many passengers are children?

$\frac{1}{4}$ of $24 = 6$

$\frac{1}{3}$ of $24 = 8$

$6 + 8 = 14$

$24 - 14 = 10$

Answer ..... 10 children .....

(Total 3 marks)

7. Shalina has two cats and has asked a neighbour to feed them while she is away on holiday.

Each cat will eat $\frac{3}{4}$ of a tin of food every day.

Shalina is going to be away for seven days.

What is the least number of tins of food needed to feed **both** cats?

$2 \times \frac{3}{4} = \frac{6}{4} = 1\frac{1}{2}$ tins a day

$7 \times 1\frac{1}{2} = 7 \times \frac{3}{2} = \frac{21}{2} = 10\frac{1}{2}$ tins

Answer ..... 11 tins .....

(Total 3 marks)

8. Petra has $6\frac{3}{4}$ metres of ribbon.

She makes 6 blouses and uses $\frac{2}{5}$ of a metre of ribbon on each blouse.

How much ribbon does she have left?

$6 \times \frac{2}{5} = \frac{12}{5}$

$6\frac{3}{4} - \frac{12}{5} = \frac{27}{4} - \frac{12}{5} = \frac{135}{20} - \frac{48}{20} = \frac{87}{20} = 4\frac{7}{20}$

Answer ..... $4\frac{7}{20}$ ..... m

(Total 4 marks)

9. On Monday Joe drinks $2\frac{1}{3}$ pints of milk.

On Tuesday he drinks $1\frac{3}{4}$ pints of milk.

Work out the total amount of milk that Joe on Monday and Tuesday.

$2\frac{1}{3} + 1\frac{3}{4} = \frac{7}{3} + \frac{7}{4} = \frac{28}{12} + \frac{21}{12} = \frac{49}{12} = 4\frac{1}{12}$

Answer ..... $4\frac{1}{12}$ ..... pints

(Total 3 marks)