

Basic Fractions and Percentages

32 marks

1. (a) Write 11% as a fraction.

..... (1)

- (b) Write 0.25 as a percentage.

.....% (1)

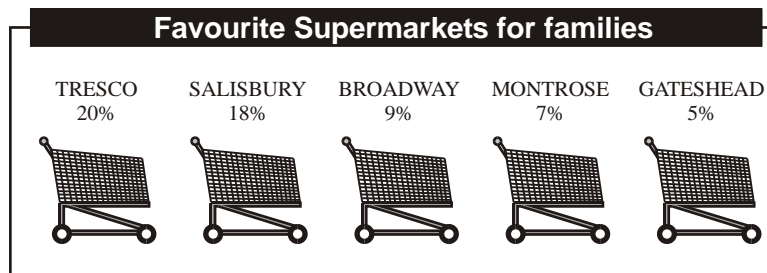
- (c) Write 8% as a decimal.

..... (1)

- (d) Work out 40% of 200.

..... (2)
(Total 5 marks)

2. In a survey, some families were asked to name their favourite supermarket. Some of the results are shown in the diagram.



- (a) Write as a **fraction** the percentage whose favourite supermarket was Montrose.

..... (1)

- (b) Write as a **decimal** the percentage whose favourite supermarket was Salisbury.

.....

(1)

200 families took part in the survey.

(c) Work out the number of families whose favourite supermarket was Tesco.

.....

(2)

(Total 4 marks)

3. Nassim buys petrol from his local garage.

On Monday, he filled up his tank.

On Tuesday, his tank was $\frac{3}{4}$ full.

(a) What fraction of the full tank of petrol had he used?

.....

(1)

(b) Write $\frac{3}{4}$ as a decimal.

.....

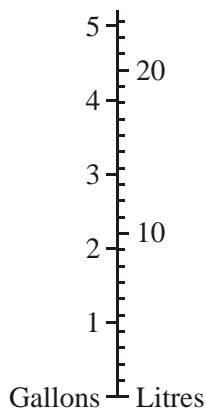
(1)

(c) Write $\frac{3}{4}$ as a percentage.

.....

(1)

The garage has a diagram for converting gallons to litres.



(d) Use the diagram to convert

(i) 2 gallons to litres,

..... litres

(ii) 3.5 gallons to litres.

..... litres
(Total 5 marks)

4. There are 800 students at Prestfield School.

144 of these students were absent from school on Wednesday.

(a) Work out how many students were **not** absent on Wednesday.

.....
(2)

Trudy says that more than 25% of the 800 students were absent on Wednesday.

(b) Is Trudy correct? Explain your answer.

.....
.....
(2)

45% of these 800 students are girls.

(c) Work out 45% of 800

.....
(2)

There are 176 students in Year 10.

(d) Write 176 out of 800 as a percentage.

.....%
(2)
(Total 8 marks)

5. (a) Write these five fractions in order of size.
Start with the smallest fraction.

$$\frac{3}{4} \quad \frac{1}{2} \quad \frac{3}{8} \quad \frac{2}{3} \quad \frac{1}{6}$$

.....

(2)

- (b) Write these numbers in order of size.
Start with the smallest number.

$$65\% \quad \frac{3}{4} \quad 0.72 \quad \frac{2}{3} \quad \frac{3}{5}$$

.....

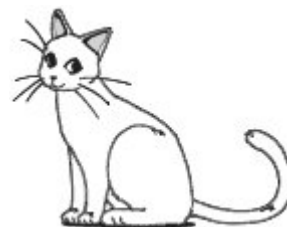
(2)

(Total 4 marks)

6.

Cat facts

- 40% of people named cats as their favourite pet.
- 98% of women said they would rather go out with someone who liked cats.
- About $7\frac{1}{2}$ million families have a cat.
- $\frac{1}{4}$ of cat owners keep a cat because cats are easy to look after.



- (a) Write 40% as a fraction.
Give your fraction in its simplest form.

..... (2)

- (b) Write 98% as a decimal.

..... (1)

- (c) Write $7\frac{1}{2}$ million in figures.

..... (1)

- (d) Write $\frac{1}{4}$ as a percentage.

.....% (1)

- (e) What percentage of people did **not** name cats as their favourite pet?

.....% (1)

(Total 6 marks)