



GCSE Foundation/Higher 03

Number



Questions



30 minutes



27 marks

Fractions

Q1. Sophie spent $\frac{1}{4}$ of her pocket money on magazines.

Then she spent $\frac{2}{3}$ of what she had left on a present.

She now has £6.

How much pocket money did she start with?

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Answer £

(Total 4 marks)

Q2. In a game players score points.
The table shows the number of points Alex scored in 50 games.

Number of points	Number of games
0	13
1	8
2	6
3	8
4	15
Total = 50	

(a) In what fraction of the 50 games did Alex score 4 points?
Give your answer in its simplest form.

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Answer

(2)

(b) Alex says he scored **more** than 100 points in total.

Show that he is correct.

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(3)
(Total 5 marks)

Q3. Alice has £4.
Billie has twice as much as Alice.

Billie has two-thirds of the amount Chris has.
The amount Chris has is four-fifths of his age in years.

How old is Chris?

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Answer years

(Total 4 marks)

Q4. Liz is buying a new car and selling her old car.

Here are three offers for the same model of new car.

Offer 1
New car £10 599
If old car given to garage
£3375 off

Offer 2
New car £11 100
If old car given to garage
 $\frac{1}{3}$ off

Offer 3
New car £9600
If old car given to garage
25% off

Which offer is best?
You **must** show your working.

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Answer

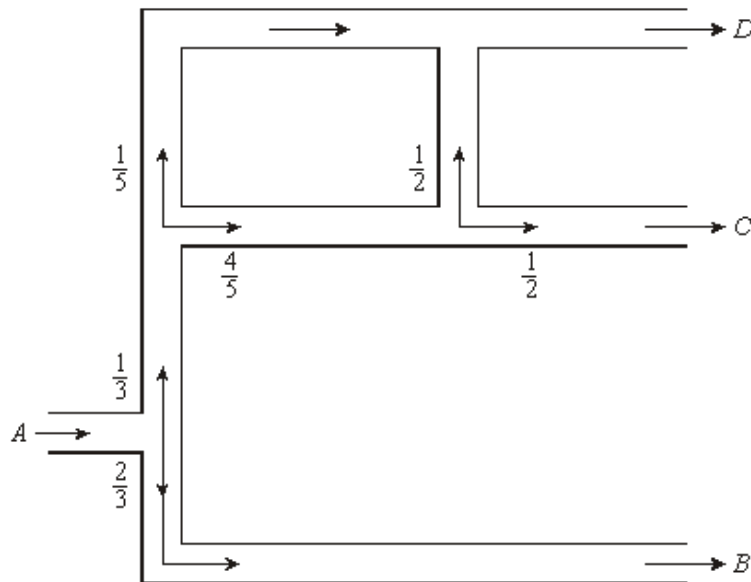
(Total 5 marks)

Q5. For each part circle the fraction whose value is closest to 1.

(a) $\frac{4}{5}$ $\frac{19}{20}$ $\frac{9}{10}$ $1\frac{1}{15}$ (1)

(b) $2\frac{1}{4}$ $\frac{11}{4}$ $-\frac{1}{8}$ $-1\frac{1}{4}$ (1)
(Total 2 marks)

- Q6.** The diagram shows a network of one-way streets. Vehicles travel in the direction of the arrows. The fractions on the diagram show how the traffic divides at each junction. 300 vehicles enter the network at A . All 300 vehicles leave the network at either B or C or D .



- (a) Show that 200 vehicles leave the network at B .

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(2)

- (b) How many vehicles leave the network at D ?

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Answer

(3)

(Total 5 marks)

Q7. Work out

(a) $\frac{2}{5} \times \frac{1}{4}$

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Answer

(1)

(b) $\frac{3}{4} - \frac{1}{5}$

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Answer

(2)

(Total 3 marks)

