



## GCSE Foundation 07

*Number*

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44 minutes



41 marks

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*Ratio*

**Q1.** A toy is made from red bricks and yellow bricks.

Number of red bricks : number of yellow bricks = 5 : 2

There are 210 **more** red bricks than yellow bricks.

How many red bricks are in the toy?

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Answer .....

**(Total 3 marks)**

**Q2.** 120 adults complete a survey.  
45 are men.

Write the ratio men : women in its simplest form.

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Answer .....

**(Total 2 marks)**

**Q3.** There are 12 cans in one pack of cola.  
One pack costs £6.50

Josh buys ten packs.  
He sells 90 of the cans for 80p each.  
He sells the rest at half price.

How much profit does he make?

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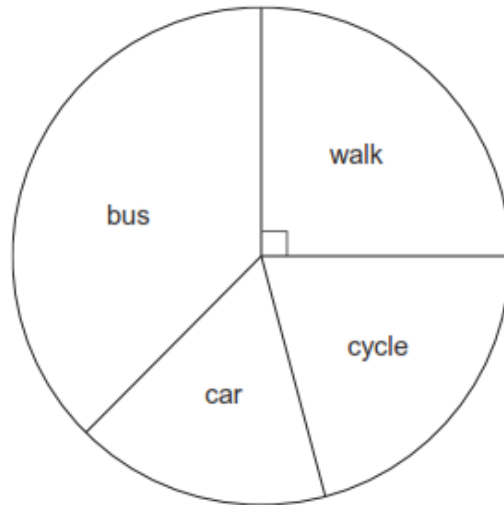
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Answer £ .....

**(Total 5 marks)**

**Q4.** The pie chart shows information about how year 10 students travel to a school.



- (a) A student from year 10 is chosen at random.

Mark, with the letter, the probabilities of each of the following on the scale below.  
The first one has been done for you.

**A:** The student walks to school.

**B:** The student does **not** walk to school.

**C:** The student travels to school by train.



(2)

- (b) 40 students travel to school by car.

How many year 10 students are there?

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Answer .....

(3)

- (c) There are 252 students in year 11.  
The same proportion of students walk to school as in year 10.

Work out the number of year 11 students that walk to school.

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Answer .....

(2)  
(Total 7 marks)

- Q5.** This table shows the ingredients needed to make six flapjacks.

Butter	75 grams
Sugar	60 grams
Oats	175 grams
Syrup	1 tablespoon

Complete the table to show the ingredients needed to make 24 flapjacks.

Butter	..... grams
Sugar	..... grams
Oats	..... grams
Syrup	..... tablespoons

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(Total 4 marks)

**Q6.** The table shows what you need to make 4 pancakes.

<b>4 pancakes</b>
120 g of plain flour
1 egg
300 ml of milk

Beth wants to make 12 pancakes.

Complete the table below.

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<b>12 pancakes</b>
.....g of plain flour
.....eggs
.....ml of milk

**(Total 3 marks)**

**Q7.** Mohsin invests some money in a cash ISA (c) and in a savings account (s).

The ratio of the amounts of money invested is  $c : s = 3 : 7$

He invests £3600 in the cash ISA.

How much money does he invest altogether?

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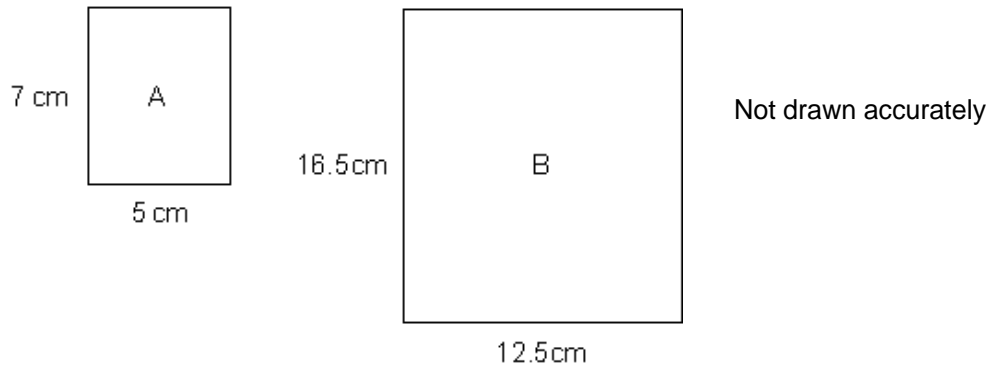
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Answer £ .....

**(Total 2 marks)**

**Q8.** Here are two rectangles, A and B.



Is rectangle B an enlargement of rectangle A?

Tick the correct box.

☐

Yes

☐

No

Explain your answer.

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(Total 3 marks)

**Q9.** Divide £7200 in the ratio 2 : 3 : 7

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Answer £..... £ ..... £ .....

(Total 3 marks)

**Q10.** The table shows some exchange rates.

£1 is worth 1.82  
American dollars

£1 is worth 194  
Japanese yen

Joanne buys a camera in America and pays 200 dollars.  
Jack buys a similar camera in Japan and pays 20 370 yen.

In which country is the camera cheaper and by how much?

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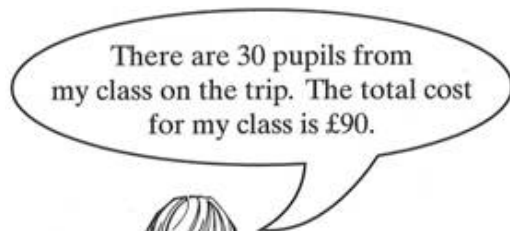
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Answer Country .....

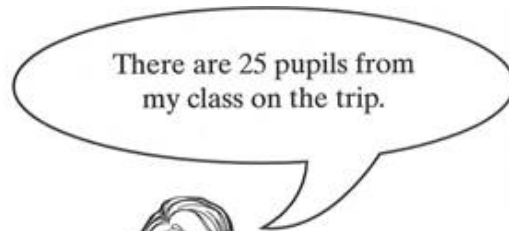
Amount .....

**(Total 4 marks)**

**Q11.** Jim's class and Rosie's class go on a trip to the zoo.  
Each pupil pays the same amount.



Jim



Rosie



What is the total cost for Rosie's class?

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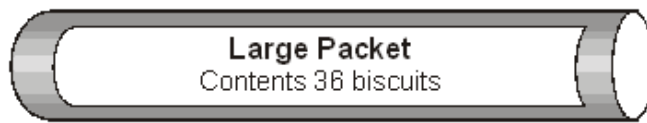
Answer £ .....

(Total 3 marks)

**Q12.**      Packets of chocolate biscuits are sold in two sizes.



**£1.09**



**£3.17**

Which size is the better value for money?

You **must** show your working.

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Answer .....

(Total 2 marks)

