GCSE 9 - 1 Questions

Fraction Of Amounts

Calculator Not Allowed

INSTRUCTIONS TO CANDIDATES

- Write your name in the space provided.

- Write your answers in the spaces provided in this question paper.

- Answer ALL questions.

- Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

Total Marks :

1) On holiday Mark drinks 3/4 of a bottle of water each day.
   What is the least number of bottles Mark will have to buy for a 9 day
   holiday?

   Answer _____ [3]

2) $\frac{2}{12}$ $\frac{5}{15}$ $\frac{8}{12}$ $\frac{6}{9}$ $\frac{4}{12}$

   Circle two fractions in the list which are each equal to $\frac{1}{3}$ [2]

3) Calculate $\frac{2}{3}$ of £72

   Answer _____[2]

4) Andrew earns £900 a month. He spends $\frac{1}{4}$ of this money on rent and $\frac{1}{5}$ on computer games. What fraction of the £900 has he left?

Answer _____[4]

5) The Ross family eat $\frac{3}{5}$ of a loaf of bread each day.

What is the least number of loaves they will need to buy for 9 days?

Answer _____ [3]

6) A company registers the number of complaints it receives about its products. They have done this each year for a period of 3 years.

They received 400 complaints in their first year. Each year, the number of complaints is reduced by $\frac{1}{10}$ of the number received the previous year.

How many complaints did the company receive in the third year?

Answer _____[3]

7) Dylan's weekly wage is ₤400. He saves $\frac{1}{10}$ of his wage in order to buy a bike.

After how many weeks will he be able to afford a buy a bike which costs ₤250. You must show all your working.

Answer _____[6]

8) 1 litre is approximately $1\frac{3}{4}$ pints.
How many litres are in 14 pints?
Show your working.

Answer _____[2]

9) Salim has a Saturday job to save money for his holiday. He earns £18 each week.

Salim saves $\frac{5}{6}$ of the money he earns each week, and spends the rest.

How much money does he save in 11 weeks?

You must show all your working.

Answer _____[5]

10) Joe uses $\frac{3}{4}$ of a tin of paint to paint a garden shed.
What is the least number of tins required to paint 10 similar sheds?

Answer _____ [3]

11) David has £600. He spends some of his £600 on rent and food. His rent is $\frac{1}{4}$ of the £600 and his food is $\frac{1}{5}$ of the £600.

What fraction of the £600 remains? Your fraction must be given in its lowest terms. You **must** show all your working

Answer _____[4]

12)

An agricultural college weighed the fruit produced from a certain tree. They did this each year for a period of 3 years.

The tree produced 225 kg of fruit in its first year.

Each year following, the weight of the fruit reduced by $\frac{1}{3}$ of that produced in the previous year.

Showing all your calculations, find how many kilograms of fruit the tree produced in the third year.

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[3]

13) Maria sells ribbon. She has a 400cm length of ribbon.

Maria cuts off $\frac{3}{10}$ of this ribbon and sells the piece to a customer. She uses $\frac{2}{5}$ of the **remaining** ribbon herself to decorate a card. Then, Maria cuts the ribbon that she has left over into three equal lengths.

What is the length of each of these three remaining pieces of ribbon.

You **must** show all your working

Answer _____[5]

14) Idris comes from a very large family. He has many relatives, all of whom live in Canada, Japan or Wales.

$\frac{1}{5}$ of his relatives live in Canada, $\frac{3}{8}$ of his relatives live in Japan.

All 34 of his other relatives live in Wales.

How many relatives does Idris have altogether?

You **must** show all your working

Answer _____[5]

15) Ivan, Dylan and Joe live in the same building. The front of the building needs painting and the three men share the cost between them.

Ivan pays $\frac{1}{4}$ of the cost and Dylan pays $\frac{1}{8}$ of the cost. Joe pays £100 which is the rest of the cost.

What is the total cost of painting the from of the building?

You **must** show all your working

Answer _____[4]

16) Each day Sion uses $\frac{3}{5}$ of a 1 litre carton of long life milk. He buys 1 litre cartons of long life milk on the Saturday of each week. He always buys the least number of 1 litre cartons so that he has enough milk to last him for the next seven days.

On a particular Saturday Sion had no milk at all in the house.

Calculate the least number of 1 litre cartons he should buy

(i) On the Saturday

(ii) On the following Saturday.

You **must** show all your working

Answers (i)_____ (ii)_____ [8]