



## Fractions of an amount Exam Practice

Q1. Find  $\frac{3}{4}$  of 72

(1 mark)

Q2. Find  $\frac{2}{5}$  of 140

(1 mark)

Q3. Find  $\frac{1}{11}$  of £7700

(1 mark)

Q4. Work out  $\frac{3}{25}$  of £750

(1 mark)

### Find the original amount, given a fraction of it

Q5. Kay is thinking of a number. If  $\frac{2}{5}$  of the number is 60, work out what number Kay is thinking about.

(2 marks)

Q6. Tom is thinking of a number. If  $\frac{4}{7}$  of the number is 360, work out what number Tom is thinking about.

(2 marks)

Q7. At a golf club,  $\frac{2}{3}$  of their supply of golf balls have been lost. If they have 150 balls left, work out the total number of balls they originally had.

(2 marks)

Q8. At a local election,  $\frac{5}{8}$  of the people voted for Mr. Davies. If 54 people did not vote for him, work out how many people were at the election.

(2 marks)

### Fraction of a fraction questions

Q9. If  $\frac{1}{2}$  of the class ate chips for lunch, and  $\frac{3}{4}$  of these pupils had dessert, what fraction of the class had chips and a dessert for lunch?

(2 marks)

Q10. In a box of rings,  $\frac{3}{4}$  of all the rings are silver, and  $\frac{1}{5}$  of these rings have red stones in them. What fraction of the rings are silver with red stones?

(2 marks)



Q11. In a sixth form,  $\frac{2}{5}$  of all the pupils are male. Of those who are female,  $\frac{1}{6}$  of them are studying German.

What fraction of the sixth form are female and studying German?

(2 marks)

### Problem Questions

Q12. Roger spends  $\frac{3}{8}$  of his monthly salary on rent,  $\frac{1}{5}$  on bills, and  $\frac{1}{10}$  on food.

If he spends £1610 on rent and bills, find how much he spends on food.

(4 marks)

Q13. A bus company offers  $\frac{1}{5}$  off a ticket which usually costs £72. Peter is allowed to buy the ticket using this offer and his railcard, which allows him a further discount of  $\frac{1}{3}$ . How much will he pay for the ticket?

(3 marks)

Q14. There are 1300 students at a school in Arnford. 210 students are in years 7 to 11 and the rest are in the sixth form. Of the pupils in the sixth form,  $\frac{2}{15}$  are from Arnford whilst of the rest of the school,  $\frac{7}{10}$  live outside Arnford.

Work out the number of pupils in the school who are from Arnford.

(4 marks)

Q15. Each year a caravan loses value so that it is worth  $\frac{5}{12}$  of what it did in the previous year. Work out how many years it will be until it is worth less than 1% of its original value?

(3 marks)

Q16. A panda is weighed in January and again in March. In March, it weighs 115 kg which is found to be an increase of  $\frac{5}{12}$  of its original weight. How much did it weigh in January, to the nearest kg?

(3 marks)

Q17. David gave  $\frac{2}{3}$  of his savings to his brother Steve, who then gave  $\frac{4}{9}$  of this to charity. If Steve gave £1600 to charity, work out how much money Dave gave to Steve.

(3 marks)

Q18. Sarah's monthly takings at her shop have been the same since the start of the year, until April, when they increased by  $\frac{2}{7}$ . Then in May, they decreased by  $\frac{1}{5}$ . Compared to the start of the year, have Sarah's takings increased or decreased? You must show your working.

(4 marks)