

8300

GCSE MATHEMATICS

Foundation and Higher tier – Questions by Topic

Number

Writing numbers as percentages of other numbers

v1.0

Name _____

Materials

For this paper you must have:

- Mathematical instruments

Information

- The marks for questions are shown in brackets

Advice

- In all calculations, show clearly how you work out your answer

Questions 1 to 3 are **foundation** tier only

For question 1 you must **NOT** use a calculator.



Q1.

(a) What is 70 out of 200 as a percentage?

(1)

(b) Work out 0.5% of 920

(2)

(Total 3 marks)

For questions 2 to 3 you may use a calculator.



Q2.

What is 18 as a percentage of 72?

Circle your answer.

18%

20%

25%

40%

(Total 1 mark)

Q3.

(a) What is 10 as a fraction of 20?

Give your answer in its simplest form.

(2)

(b) What is 10 as a percentage of 20?

(1)

(Total 3 marks)

Questions 5 to 8 are **higher** tier only

For the rest of the questions, you may use a calculator.



Q4.

(a) Write 1.52 as an improper fraction in its simplest form.

(1)

(b) Work out 60 as a percentage of 20

(1)

(Total 2 marks)

Q5.

Work out 320 as a percentage of 80
Circle your answer.

25%

75%

300%

400%

(Total 1 mark)

Q6.

Work out 40 as a percentage of 10
Circle your answer.

4%

25%

300%

400%

(Total 1 mark)

Q7.

What is 50 as a percentage of 20?

10%

40%

150%

250%

(Total 1 mark)

Q8.

(a) Here is information about animals in a rescue centre.

- Half of the dogs are male.
- 25% of the rabbits are female.
- There are 20 more males than females altogether.

Complete the two-way table.

	Dog	Cat	Rabbit	Total
Male				
Female				
Total	42	18	20	80

(4)

(b) 42 of the 80 animals are dogs.

What percentage of the animals are dogs?

(2)

(Total 6 marks)