NAME

Non-calculator

1 a What percentage of this 100 square is shaded?

………………………… %
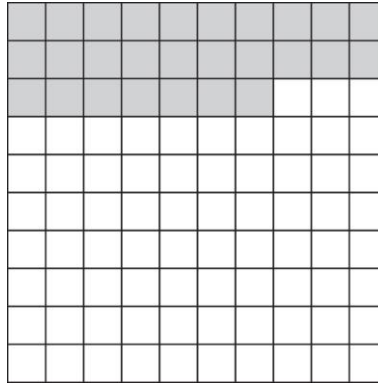
(1 mark)

b Shade another $\dfrac{1}{4}$ of the 100 square.

(1 mark)

c What percentage of the 100 square is now **not** shaded?

………………………… %

(1 mark)

2 Work out 25% of 20 kg.

………………………… kg

(1 mark)

3   Calculate 10% of 80p.

.... p

(1 mark)

4   **a**   Write $\dfrac{31}{100}$ as a decimal.

....

(1 mark)

    b   Write $\dfrac{3}{20}$ as a decimal.

....

(1 mark)

5   Underline the fraction which is **not** equal to $\dfrac{2}{3}$

$$\dfrac{8}{12} \qquad\qquad \dfrac{4}{6} \qquad\qquad \dfrac{15}{20} \qquad\qquad \dfrac{12}{18}$$

(1 mark)

6   A dog has 9 puppies.

    2 of the puppies are brown.

    What fraction of the puppies are brown?

....

(1 mark)

7 Complete

$$\frac{3}{5} = \frac{12}{\boxed{}}$$

(1 mark)

8 Write these fractions in ascending order.

$$\frac{3}{8}, \quad \frac{1}{8}, \quad \frac{7}{8}, \quad \frac{5}{8}$$

....

(1 mark)

9 Write $\dfrac{14}{5}$ as a mixed number.

....

(1 mark)

10 An improper fraction is equal to a whole number and a fraction of $\dfrac{5}{6}$ as shown.

Work out the missing numbers.

$$\frac{17}{\boxed{}} = \boxed{}\frac{5}{6}$$

(2 marks)

11 Work out $\dfrac{1}{12} + \dfrac{7}{12}$

Give your answer in its simplest form.

....
(2 marks)

12 a Write 0.36 as a fraction in its simplest form.

....
(1 mark)

b Work out 0.36 × 25

....
(1 mark)

13 Work out $\dfrac{13}{15} - \dfrac{8}{15}$

Give your answer in its simplest form.

(2 marks)

Calculator

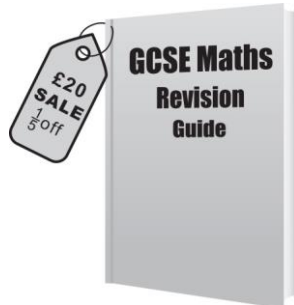**14** Write $\frac{4}{3}$ as a mixed number.

……………………………
(1 mark)

15 Mary says that 3% is equivalent to 0.3

Explain what Mary has done wrong.

……

……
(1 mark)

16 The original price of this book is £20.

The price of the book is reduced by $\frac{1}{5}$ in a sale.

What is the price of the book in the sale?

£ …………………………
(2 marks)

17 Find $\dfrac{1}{10}$ of 87 kg.

………………………… kg
(1 mark)

18 A shop has 120 books.

$\dfrac{3}{4}$ of the books are cookbooks.

How many of the books are cookbooks?

…………………………
(2 marks)

19 There are 25 students in a class.

7 of the students are left-handed.

What percentage of the students are left-handed?

………………………… %
(2 marks)

20 Ray says, '70% of £45 is £3.15'

Ray is wrong. Explain why.

………….………………………………………………………………….........…………………………

………….………………………………………………………………….........…………………………

(1 mark)

| Overall mark | /30 |