

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Pages	Mark
3	
4 – 5	
6 – 7	
8 – 9	
10 – 11	
TOTAL	



GCSE Mathematics (Calculator Paper)

Practice Paper Style Questions – Topic: Fractions (Foundation Tier)

<p>For this paper you must have:</p> <ul style="list-style-type: none"> • black pen • HB pencil • ruler (with cm & mm) • rubber • protractor • compass • pencil sharpener • calculator 	
---	--

Time allowed

- 1 hour

Instructions

- Use **black ink** or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is **56**.
The quality of your written communication is specifically assessed in questions indicated with an asterisk (*)
- You may ask for more answer paper and graph paper.
These must be tagged securely to this answer booklet.
- A calculator **MAY** be used.

Advice

- Read each question carefully before you answer it.
- In all calculations, show clearly how you work out your answer.
- Check your answers if you have time at the end.

There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

1 Paul earns a salary of £2500 per month.

He gets a pay rise of 3%.

Work out his new monthly salary.

Answer (3 marks)

2 (a) Jo wins a race. Her time is recorded as 49.68 seconds.

Paul comes second in the race. His time is four hundredths of a second slower.

Work out Paul's time.

Answer (1 mark)

(b) Round Tom's time of 51.46 seconds to one decimal place.

Answer (1 mark)

3 Write a number in each box to make correct statements.

(a) $40\% = \frac{\square}{5}$

(1 mark)

(b) $0.7 = \frac{\square}{10}$

(1 mark)

(c) $\frac{1}{6} = \frac{\square}{18}$

(1 mark)

(d) $\frac{6}{15} = \frac{\square}{5}$

(1 mark)

4 Two banks calculate yearly interest they pay their customers in the following ways:

Rissington Bank
3% of the total you invest

E.g. Invest £500
Interest = 3% of £500

Cotswold Bank
1% of the first £200 you invest
Plus 4% of amounts over £200 you invest

E.g. Invest £500
Interest = 1% of £200 + 4% of £300

Jo has £400 to invest for one year.

Work out which bank will pay her more interest.

State how much **extra** interest she will earn.

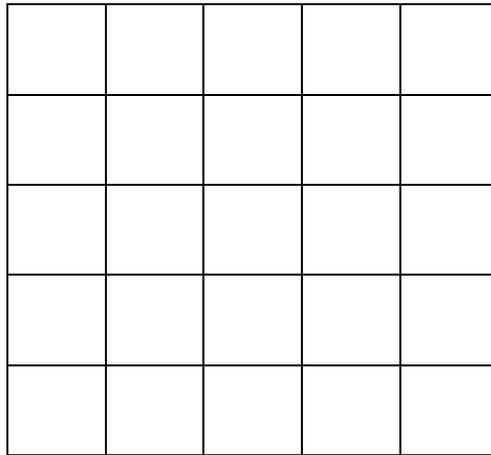
Bank

Extra interest£..... (5 marks)

- 5** There are 150 people at a cricket match. 20% are children.
One half are men and the rest are women.
How many women are at the cricket match?

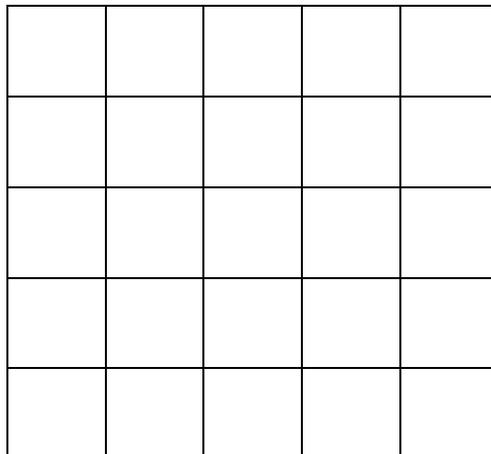
Answer (4 marks)

- 6 (a)** Shade $\frac{8}{25}$ of this square grid:



(1 mark)

- (b)** Shade $\frac{3}{5}$ of this square grid:



(2 marks)

(c) Use your answers to parts (a) and (b) to write down the answer to $\frac{3}{5} - \frac{8}{25}$

Answer (1 mark)

(d) Work out $\frac{2}{3}$ of 24

Answer (2 marks)

7 (a) Use your calculator to work out $\frac{5.7}{8.4-2.5}$

Write down all the digits on your calculator display.

Answer (2 marks)

(b) Write these numbers in size order starting with the lowest.

0.64 $\frac{3}{5}$ 75% $\frac{1}{3}$ $\frac{5}{8}$

Answer (2 marks)

- 8 A theatre ticket costs £75 plus a booking charge of 12%.

Work out the total cost of a concert ticket.

Answer£.....(3 marks)

- 9 A restaurant sells salads and hot meals on its lunchtime menu.

In one week the number of salads sold and the number of hot meals sold were in the ratio of

2:5

The **total** number of salads *and* hot meals sold in the week was 1484

Work out the number of **salads** sold.

Answer (2 marks)

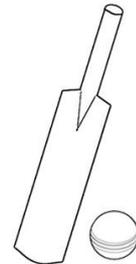
- 10 A sports shop sells football kit and cricket kit.

The ratio of the number of items of cricket kit sold to the number of items of football kit sold is

2:6

The shop sells 48 items of kit in total in one week.

- (a) Work out the number of items of **cricket kit** the shop sold that week.



Answer (1 mark)

(b) A cricket bat costs £195 plus VAT at 20%.

Work out the total cost of the bat.

Answer (3 marks)

11 The value of a new car is £15,000

Its value depreciates by 15% per year.

Work out the value of the car after 2 years.

Answer (4 marks)

12 There are some pegs in a basket.

42 of the pegs are blue.

28 of the pegs are pink

Write down the ratio of the number of blue pegs to the number of pink pegs.

Give your ratio in its simplest form.

Answer (2 marks)

13 There are some bottles of red and white wine in a rack.

The **total** number of bottles is 32

The ratio of the number of bottles of red to the number of bottles of white is 3:5

Work out the number of bottles of **red wine** in the rack.

Answer (2 marks)

14 Paul invested £7500 for two years in a savings account.

He was paid 3% per annum compound interest.

(a) How much did Paul have in his savings account after two years?

Answer£..... (3 marks)

Tom invested £2500 for n years in a savings account.

He was paid 6.5% per annum compound interest.

At the end of the n years he had £3425.22

(b) Work out the value of n

Answer (2 marks)

15 Work out

(a) $\frac{2}{5} \div \frac{7}{15}$

Answer (3 marks)

(b) $2\frac{2}{3} - 1\frac{4}{5}$

Answer (3 marks)

END OF QUESTIONS

There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

