Write your name here		
Write your name here		
Surname	Oth	ner names
In the style of:	Centre Number	Candidate Number
Edexcel GCSE		
Mathema	tics A	
Fractions		
Fractions		,
Fractions		Foundation Tier
Past Paper Style Que	stions	Paper Reference
	stions	

Instructions

- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided
 there may be more space than you need.
- Calculators may be used.

Information

- The total mark for this paper is 100
- The marks for each question are shown in brackets
 use this as a guide as to how much time to spend on each question.
- Questions labelled with an asterisk (*) are ones where the quality of your written communication will be assessed.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.



Turn over



1. David earns a salary of £3500 per month.

He gets a pay rise of 4%.

Work out his new monthly salary.

Alternatively, to increase
$$f3,640$$

a given amount by 4%, multiply (3)
by 1.04, i.e. $3500 \times 1.04 = f3,640$

2(a) Helen wins a race.

Her time is recorded as 50.36 seconds. Andrew comes second in the race.

His time is three-hundredths of a second slower.

Work out Andrew's time.

(2)

(b) Round Michael's time of 50.36 seconds to 1 decimal place.

(Total 6 marks)



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

(a)
$$50\% = \frac{1}{2}$$

(1)

(b)
$$0.3 = \frac{3}{10}$$

(1)

(c)
$$\frac{1}{3}$$

3 9

(1)

$$\frac{3}{15} = \frac{1}{5}$$

(1)

Total 4 marks)

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4. Two banks calculate the yearly interest they pay customers.

Westminster Bank

4% of the total that you invest

For example: Invest £700

Interest = 4% of £700

District Bank

1% of the first £300 that you invest 6% of amounts over £300 that you invest

For example: Invest £700 Interest

=1% of £300 + 6% of £400

Ashna has £500 to invest for one year.

Work out which bank will pay her more interest.

State how much extra interest she will earn.

$$(0.01 \times 300) + 0.06 (500 - 300)$$

= $f15$

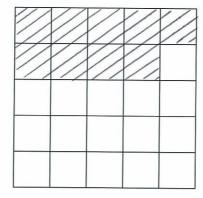
There are 180 people at a wedding. 20% are children.
One-half are men. The rest are women.

How many women are at the wedding?

$$\frac{1}{2} = 50\%$$
 $50\% + 20\% = 70\% = 30\%$ are women.
 30% of $180 = 54$

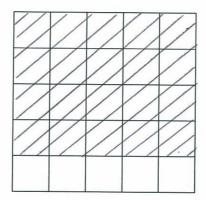
Answer 54
(4)

Shade $\frac{9}{25}$ of this square grid. 6 (a)



(1)

Shade $\frac{4}{5}$ of this square grid. (b)



(1)

Use your answers to part (a) and part (b) to write down the answer to (c) $\frac{20}{25} - \frac{9}{25} = \frac{11}{25}$

(1)

(d)

Work out
$$\frac{2}{3}$$
 of 36
$$(36 \div 3) \times 2$$

$$= 12 \times 2$$

$$= 24$$

24

(2)

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7. (a) Use your calculator to work out $\frac{4.7}{9.4-3.5}$

Write down all the figures on your calculator display.

(b) Write these numbers in order of size. Start with the smallest number.

$$\frac{4}{5}$$
 85% $\frac{2}{3}$ $\frac{7}{8}$

$$\frac{2}{3}$$
, $\frac{4}{5}$, 0.82, 85%, $\frac{7}{8}$ (2) (Total 4 marks)

9. A concert ticket costs £65 plus a booking charge of 15%.

Work out the total cost of a concert ticket.

(Total 3 marks)

10.A school canteen sells salads and hot meals.

In one week the number of salads sold and the number of hot meals sold were in the ratio 3:5

The total number of salads and hot meals sold in the week was 1456

Work out the number of salads sold.

$$\frac{3}{8}$$
 x 1456 = 546

(Total 2 marks)



11.A garage sells British cars and foreign cars.

The ratio of the number of British cars sold to the number of foreign cars sold is 2:7

The garage sells 45 cars in one week.

(a) Work out the number of British cars the garage sold that week.

$$\frac{2}{9} \times 45 = 10$$

(2)

A car tyre costs £80 plus VAT at $17\frac{1}{2}$ %.

(b) Work out the total cost of the tyre.

£ 94

The value of a new car is £14000

The value of the car depreciates by 20% per year.

(c) Work out the value of the car after 2 years.

$$14000 \times 0.8^2 = f8,960$$



- 12. There are some pens in a bag.
 - 36 of the pens are blue.
 - 24 of the pens are black.
 - (a) Write down the ratio of the number of blue pens to the number of black pens. Give your ratio in its simplest form.

3 . 2

There are some books and comics in a box.

The total number of books and comics is 54

The ratio of the number of books to the number of comics is 1:5

(b) Work out the number of books in the box.

$$\frac{1}{6}$$
 x 54 = 9

(2)

(Total 4 marks)

13. Louis invested £6500 for 2 years in a savings account.

He was paid 4% per annum compound interest.

(a) How much did Louis have in his savings account after 2 years?

Hassan invested £2400 for n years in a savings account.

He was paid 7.5% per annum compound interest.

At the end of the n years he had £3445.51 in the savings account.

(b) Work out the value of n.

Use a calculator to show that 2400 multiplied by 1.075 5 successive times gives the answer 3445.51 (2d.p.). i.e. 2400 x 1.0755 = 3445.51 (2d.p.).

$$2400 \times 1.075^{\circ} = 3445.51$$

$$=) 1.075^{\circ} = \frac{3445.51}{2400}$$
(Total 5 marks)

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14. (a) Work out
$$\frac{2}{3} \div \frac{7}{9}$$

Give your fraction in its simplest form.

$$\frac{2}{3} \times \frac{9}{7} = \frac{2 \times 9}{3 \times 7} = \frac{18}{21} = \frac{6}{7}$$

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

$$\frac{2 \times 3 + 1}{3} - \frac{1 \times 5 + 2}{5}$$

$$=\frac{7}{3}-\frac{7}{5}$$

$$= \frac{(7 \times 5) - (7 \times 3)}{3 \times 5} = \frac{35 - 21}{15} = \frac{14}{15}$$

