Write your name here

Surname

Other Names

Mathematics

June 2018 Paper 1 (Non Calculator)
Part 1 (First half of the paper)
Edexcel Foundation Tier

Time: 45 minutes

Q	Topic	Max Mark	My Marks
1	Rounding	1	
2	Ordering Negative Numbers, Place Value	2	
3	Fractions, Decimals and Percentages	1	
4	Simplifying Fractions, Equivalent Fractions	1	
5	Multiples	1	
6	Simplifying Algebra	2	
7	Writing Probability, Probability Scale	5	
8	Direct Proportion	2	
9	Circles, Labelling Circles	2	
10	Calculation (Money) Problems	3	
11	Factors, Place Value	2	
12	(Composite) Bar Charts	7	
13	Calculation Problems	3	
14	Ratio, Fractions, Decimals and Percentages	4	
15	Percentage of Amount	2	
	Total	38	

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Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write 6324 correct to the nearest thousand.

....

(Total for Question 1 is 1 mark)

2 (a) Write the following numbers in order of size.
Start with the smallest number.

$$-6 \qquad 6 \qquad -5 \qquad 0 \qquad 12$$

....

(1)

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

$$0.078 \qquad 0.78 \qquad 0.87 \qquad 0.708$$

....

(1)

(Total for Question 2 is 2 marks)

3 Write 20% as a fraction.

....

(Total for Question 3 is 1 mark)

4 Here is a list of four fractions.

$$\frac{4}{16} \qquad \frac{2}{8} \qquad \frac{15}{60} \qquad \frac{3}{9}$$

One of these fractions is **not** equivalent to $\frac{1}{4}$

Write down this fraction.

....

(Total for Question 4 is 1 mark)

5 Write down the first even multiple of 7

....

(Total for Question 5 is 1 mark)

6 (a) Simplify $3 \times 4t$

....

(1)

(b) Simplify $8a - 3a + 2a$

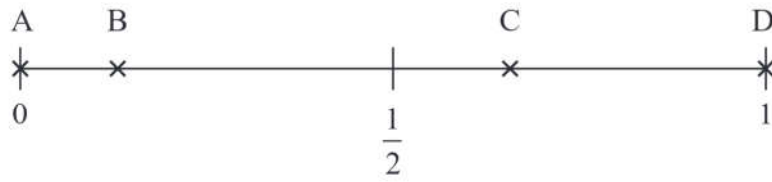.......................................

(1)

(Total for Question 6 is 2 marks)

7 Here is a probability scale.
It shows the probability of each of the events A, B, C and D.

(a) Write down the letter of the event that is certain.

....
(1)

(b) Write down the letter of the event that is unlikely.

....
(1)

There are 12 counters in a bag.

3 of the counters are red.
1 of the counters is blue.
2 of the counters are yellow.
The rest of the counters are green.

Caitlin takes at random a counter from the bag.

(c) Show that the probability that this counter is yellow or green is $\frac{2}{3}$
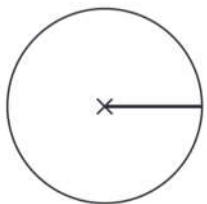
(3)

(Total for Question 7 is 5 marks)

8 3 kg of meat costs £54
Nina buys 2 kg of the meat.

Work out how much Nina pays.

£ ....
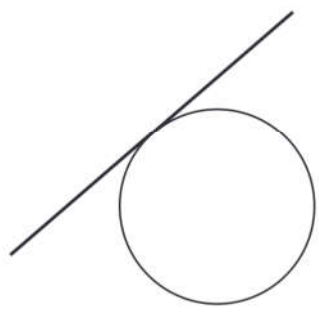
(Total for Question 8 is 2 marks)

9 The centre of this circle is marked with a cross (×).

(a) Write down the mathematical name of the straight line shown in the circle.

....

(1)

(b) Write down the mathematical name of the straight line that is touching the circle.

....

(1)

(Total for Question 9 is 2 marks)

10 Tim and three friends go on holiday together for a week.

The 4 friends will share the costs of the holiday equally.

Here are the costs of the holiday.

£1280 for 4 return plane tickets
£640 for the villa
£220 for hire of a car for the week

Work out how much Tim has to pay for his share of the costs.

£ ....

(Total for Question 10 is 3 marks)

11 Write down an example to show that each of the following two statements is **not** correct.

(a) The factors of an even number are always even.

....

(1)

(b) All the digits in odd numbers are odd.

....
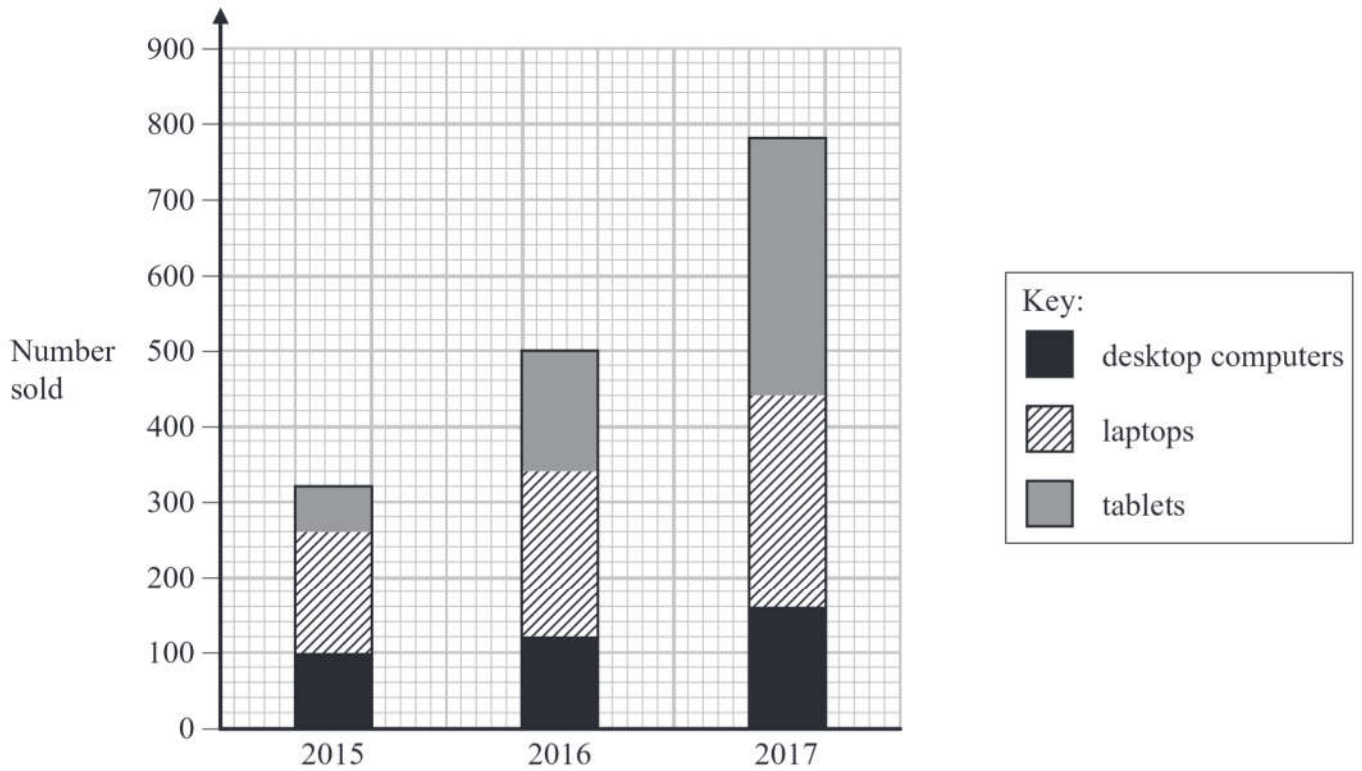
(1)

(Total for Question 11 is 2 marks)

12 A shop sells desktop computers, laptops and tablets.

The composite bar chart shows information about sales over the last three years.

(a) Write down the number of desktop computers sold in 2015

....

(1)

(b) Work out the total number of laptops sold in the 3 years.

....

(3)

(c) State the item that had the greatest increase in sales over the 3 years.
Give a reason for your answer.

....

....

....

(2)

Alex says,

"In 2017, more tablets were sold than desktop computers. This means the shop makes more profit from the sale of tablets than from the sale of desktop computers."

(d) Is Alex correct?
You must justify your answer.

....

....

....

(1)

(Total for Question 12 is 7 marks)

13 A piece of wire is 240 cm long.

Peter cuts two 45 cm lengths off the wire.
He then cuts the rest of the wire into as many 40 cm lengths as possible.

Work out how many 40 cm lengths of wire Peter cuts.

....

(Total for Question 13 is 3 marks)

14 Gavin, Harry and Isabel each earn the same monthly salary.

Each month,

Gavin **saves** 28% of his salary and spends the rest of his salary

Harry spends $\frac{3}{4}$ of his salary and **saves** the rest of his salary

the amount of salary Isabel saves : the amount of salary she spends $= 3 : 7$

Work out who saves the most of their salary each month.
You must show how you get your answer.

(Total for Question 14 is 4 marks)

15 Work out 15% of 160 grams.

.... grams

(Total for Question 15 is 2 marks)