Quick paper C14

Paper 3 style · Calculator · Foundation

18 marks
about 15–20 minutes

Name	Date	Score / 18

Answer ALL questions. Write your answers in the spaces provided. You must write down all the stages in your working. You may use a calculator. Diagrams are **NOT** accurately drawn unless it says so.

Help on the longer questions

Underlined words tell you what the question wants.

Remember reminds you of a fact you need.

1 **Change** 4500 grams into kilograms.

..... kg

(1)

(Total for Question 1 is 1 mark)

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2 **Work out** $\frac{1}{5}$ of 35

.....

(1)

(Total for Question 2 is 1 mark)

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3 **Write** 35% as a fraction.

.....

(1)

(Total for Question 3 is 1 mark)

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4 **Work out** 3.5^2

.....

(1)

(Total for Question 4 is 1 mark)

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5 **Write** the following numbers in order of size.
Start with the smallest number.

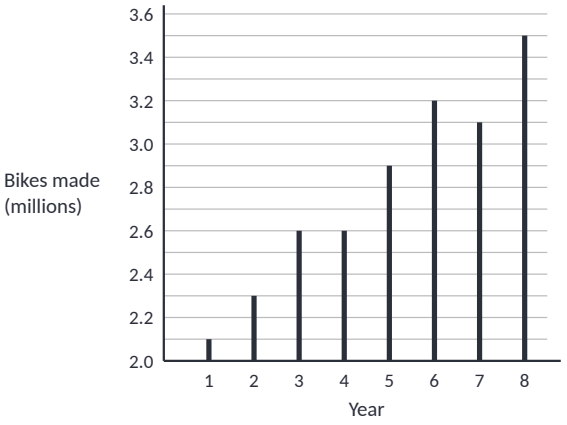
3 −5 0 8 −7 −2 4

.....

(1)

(Total for Question 5 is 1 mark)

6 The graph shows some information about the number of bikes made by a company over eight years.



(a) For how many of these years was the number of bikes made more than 2.8 million?

.....

(1)

(b) In which two years was the number of bikes made the same?

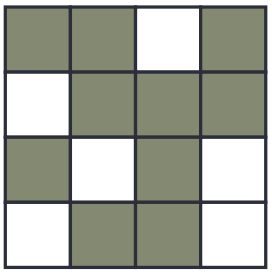
.....

(1)

(Total for Question 6 is 2 marks)

7 What fraction of this shape is shaded?

Give your answer in its simplest form.



.....

(2)

(Total for Question 7 is 2 marks)

8 Tom buys 180 tiles.

The tiles are sold in boxes.

There are 20 tiles in each box.

Each box of tiles costs £8.45

Work out the total cost of the boxes of tiles Tom buys.

> **Remember** Write down each cost or amount as you work it out, then add them up. Write money with 2 decimal places (£4.50). 100p = £1.

£ .....

(3)

(Total for Question 8 is 3 marks)

9

Remember Use brackets for the top and the bottom of a fraction. Write down every digit on the display.

(a) **Work out** the value of $\frac{240}{3 \times 4}$

.....

(1)

(b) **Work out** the value of $(7 - 1.5)(3 + 5)$

.....

(1)

(c) **Write down** the reciprocal of 8

.....

(1)

(Total for Question 9 is 3 marks)

10 Here are the first five terms of a number sequence.

52 46 40 34 28

Remember Find the difference between terms. nth term = difference × n + (first term − difference).

(a) **Write down** the next two terms of this sequence.

.....

(1)

(b) A term of this sequence is −8
Which term?

.....

(1)

(c) The nth term of a different sequence is given by the expression $3n + 5$
Find the 7th term of this sequence.

.....

(1)

(Total for Question 10 is 3 marks)

TOTAL FOR PAPER IS 18 MARKS

C14 mark scheme

Q		Answer	Mark	Notes
1		4.5	B1	
2		7	B1	
3		$\frac{7}{20}$	B1	accept 35/100
4		12.25	B1	
5		−7, −5, −2, 0, 3, 4, 8	B1	
6	(a)	4	B1	
	(b)	Years 3 and 4	B1	
7		$\frac{5}{8}$	M1 A1	M1 for 10/16 A1 cao
8		76.05	M1 M1 A1	M1 for 180 ÷ 20 (= 9) M1 for 9 × 8.45 A1 cao
9	(a)	20	B1	
	(b)	44	B1	
	(c)	$\frac{1}{8}$ or 0.125	B1	
10	(a)	22, 16	B1	
	(b)	11th	B1	
	(c)	26	B1	

B1 = mark for a correct answer · **M1** = method mark · **A1** = accurate answer after M1 · **C1** = reason · **cao** = correct answer only

Score ____ / 18

Write your score on the front page