Quick paper N2

Paper 1 style · Non-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 must **not** 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 **(a)** **Change** 485 cm into metres.

..... m

(1)

(b) **Change** 3.6 kg into grams.

..... g

(1)

(Total for Question 1 is 2 marks)

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2 **Work out** $3 + 6 \times 4$

.....

(1)

(Total for Question 2 is 1 mark)

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3 **Solve** $\frac{y}{5} = 8.4$

$y =$ .....

(1)

(Total for Question 3 is 1 mark)

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4 Here are four numbers.

$-8 \quad -3 \quad 2 \quad 5$

Write one of these numbers in each box to make a correct calculation.

$\square + \square = -6$

(1)

(Total for Question 4 is 1 mark)

Turn over ►

5 Here are the first four terms of a number sequence.

3 7 15 31

The rule to continue this sequence is

multiply the previous term by 2 and then add 1

Work out the 5th term of this sequence.

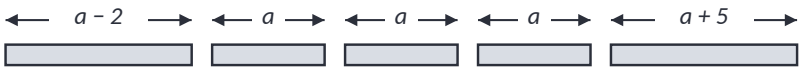
.....

(1)

(Total for Question 5 is 1 mark)

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6 Here are five straight rods.



All measurements are in centimetres.
The total length of the five rods is L cm.
Find a formula for L **in terms of** a.
Write your formula as simply as possible.

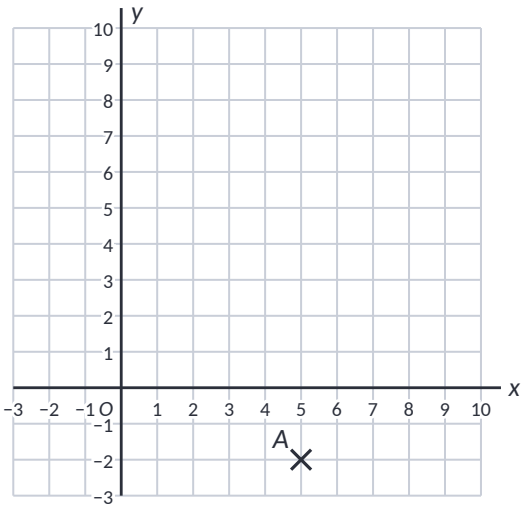
> **Remember** Add up all the lengths: collect the a terms together and the number terms together.

.....

(3)

(Total for Question 6 is 3 marks)

7



Remember (x, y): go along first, then up. Midpoint: add the x values and halve, add the y values and halve.

(a) **Write down** the coordinates of the point *A*.

(1)

(b) **Plot** the point with coordinates (2, 7)
Label this point *B*.

(1)

(c) Does point *B* lie on the straight line with equation $y = 3x + 1$?
You must show how you get your answer.

(1)

(d) On the grid, draw the line with equation $x = -1$

(1)

(Total for Question 7 is 4 marks)

8 The length of a rectangle is three times the width of the rectangle.
The area of the rectangle is 27 cm².
Draw the rectangle on the centimetre grid.

(2)

(Total for Question 8 is 2 marks)

9 Leo wants to work out 4260 ÷ 5
He knows that 4260 ÷ 10 = 426
Leo writes

4260 ÷ 5 = 213

because 10 ÷ 5 = 2

and 426 ÷ 2 = 213

What mistake did Leo make in his method?

(1)

(Total for Question 9 is 1 mark)

10 Amy and Ben each played a computer game six times.
Their scores for each game are shown below.

Amy	7	8	9	8	7	9
Ben	3	12	6	14	2	11

(a) Who had the most consistent scores, Amy or Ben?
You must give a reason for your answer.

(1)

(b) Amy played a different game 20 times.
The stem and leaf diagram shows information about her scores.

0	8
1	1 4 4 6
2	3 7 7 7 7 9
3	0 2 5 5 8
4	1 3 6 8

Key: 1 | 4 represents 14 points

Amy said her modal score was 7 points because 7 occurs most often in the diagram.
Is Amy correct?
You must explain your answer.

(1)

(Total for Question 10 is 2 marks)

TOTAL FOR PAPER IS 18 MARKS

N2 mark scheme

Q		Answer	Mark	Notes
1	(a)	4.85	B1	
	(b)	3600	B1	
2		27	B1	
3		42	B1	
4		$-8 + 2 = -6$	B1	
5		63	B1	
6		$L = 5a + 3$	M1 A1 A1	M1 for adding the five lengths A1 for $5a + 3$ A1 for $L = 5a + 3$
7	(a)	(5, −2)	B1	
	(b)	Point at (2, 7) labelled B	B1	
	(c)	Yes: $3 \times 2 + 1 = 7$	C1	C1
	(d)	Vertical line through $x = -1$	B1	
8		A 9 cm by 3 cm rectangle	B2	B2 (B1 for a rectangle of area 27 or with length three times the width)
9		He should multiply 426 by 2, not divide ($4260 \div 5 = 852$)	C1	C1
10	(a)	Amy: her range (2) is smaller than Ben's (12)	C1	C1
	(b)	No: the modal score is 27 (the 7s are in the 20s row)	C1	C1

Mark scheme continues ►

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

Score ____ / 18