Quick paper C2

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 The table shows the lengths of five rivers.

River	Length (km)
Ridge	214
Moor	87
Valley	263
Coast	258
Forest	89

(a) **Write down** the rivers in order of length.
Start with the shortest river.

(1)

(b) Sam says,

"The Valley river is more than three times as long as the Moor river."

Show that Sam is correct.

(1)

(Total for Question 1 is 2 marks)

Turn over ►

2 Pens are sold in packs and in boxes.
There are 10 pens in each pack.
There are 24 pens in each box.
Jo buys p packs of pens and b boxes of pens.
Write down an expression, **in terms of p and b**, for the total number of pens Jo buys.

.....

(2)

(Total for Question 2 is 2 marks)

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3 Here are four digits.

3 8 2 7

(a) **Write down** the smallest possible two digit number that can be made with two of the digits.

.....

(1)

(b) **Write down** the three digit number closest to 500 that can be made with three of the digits.

.....

(1)

(Total for Question 3 is 2 marks)

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4 $\frac{3}{7}$ of a number is 18
Find the number.

.....

(2)

(Total for Question 4 is 2 marks)

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5 A necklace is made of red beads and blue beads.

$\frac{2}{5}$ of the beads are red.

> **Remember** Add the ratio parts to find the total number of parts. One part = amount ÷ total parts. Then multiply.

(a) **Write down** the ratio of red beads to blue beads.

.....

(1)

(b) There is a total of 45 beads.
Work out the number of blue beads.

.....

(2)

(Total for Question 5 is 3 marks)

6 Here is a list of numbers.

14 18 11 20 16 25 15

Kai says,

"To work out the median you find the middle number, so the median of these numbers is 20"

Kai's answer is **not** correct.

> **Remember** Mean = total ÷ how many. Median = middle value when in order. Mode = most common. Range = biggest – smallest.

(a) What is wrong with Kai's method?

(1)

(b) **Work out** the range of the numbers in the list.

.....

(2)

(c) **Work out** the mean of the numbers in the list.

.....

(2)

(Total for Question 6 is 5 marks)

7 Amy is going to have lunch.
She can choose one sandwich and one drink from the menu.

Sandwich	Drink
Ham	Water
Cheese	Milk
Egg	Juice

Write down all the possible combinations Amy can choose.

(2)

(Total for Question 7 is 2 marks)

TOTAL FOR PAPER IS 18 MARKS

C2 mark scheme

Q		Answer	Mark	Notes
1	(a)	Moor, Forest, Ridge, Coast, Valley	B1	
	(b)	3 × 87 = 261, and 263 > 261	C1	C1
2		$10p + 24b$	B2	B2 (B1 for $10p$ or $24b$)
3	(a)	23	B1	
	(b)	387	B1	
4		42	M1 A1	M1 for 18 ÷ 3 × 7 A1 cao
5	(a)	2 : 3	B1	
	(b)	27	M1 A1	M1 for 45 ÷ 5 × 3 A1 cao
6	(a)	He did not put the numbers in order first	C1	C1
	(b)	14	M1 A1	M1 for 25 − 11 A1 cao
	(c)	17	M1 A1	M1 for 119 ÷ 7 A1 cao
7		HW, HM, HJ, CW, CM, CJ, EW, EM, EJ	B2	B2 all 9 with no repeats (B1 for at least 5 correct)

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