Quick paper C1

Paper 2 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

Remember Collect like terms: the same letter (and power) together. Watch the sign in front of each term.

(a) **Simplify** $7k - 2k + k$

.....

(1)

(b) **Simplify** $n^2 + n^2$

.....

(1)

(c) **Simplify** $12 + 4a + 6b - 9a + b$

.....

(2)

(Total for Question 1 is 4 marks)

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2 **Write** 83.47 **correct to one significant figure**.

.....

(1)

(Total for Question 2 is 1 mark)

Turn over ►

3 Here are four fractions.

$$\frac{3}{8} \quad \frac{7}{20} \quad \frac{2}{5} \quad \frac{1}{3}$$

Write these fractions in order of size.
Start with the smallest fraction.

.....

(2)

(Total for Question 3 is 2 marks)

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4 There are 360 coins in a jar.
$\frac{1}{4}$ of the coins are £1 coins.
140 of the coins are 50p coins.
The rest of the coins are 20p coins.
Work out the total value of the 360 coins.

> **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.

£ .....

(4)

(Total for Question 4 is 4 marks)

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5 The probability that a new phone has a fault is 0.024
What is the probability that a new phone does **not** have a fault?

.....

(1)

(Total for Question 5 is 1 mark)

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6 Here is a list of numbers.

41 42 43 44 45 46 47 48 49

> **Remember** Factors divide into a number. Multiples are in its times table. A prime has exactly two factors.

(a) From the numbers in the list, write down a square number.

.....

(1)

(b) From the numbers in the list, write down a number that is a multiple of **both** 3 and 5

.....

(1)

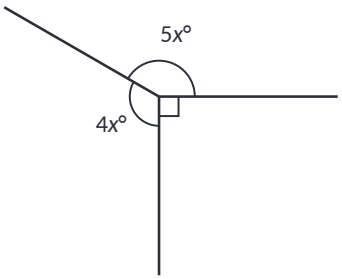
(c) **Write down** all the prime numbers in the list.

.....

(1)

(Total for Question 6 is 3 marks)

7



Find the value of x.

> **Remember** Straight line = 180°. Around a point = 360°. Triangle = 180°. Quadrilateral = 360°. Isosceles: two equal base angles. Write the reason for each angle.

x = ...

(3)

(Total for Question 7 is 3 marks)

TOTAL FOR PAPER IS 18 MARKS

C1 mark scheme

Q		Answer	Mark	Notes
1	(a)	$6k$	B1	
	(b)	$2n^2$	B1	
	(c)	$12 - 5a + 7b$	B2	B2 (B1 for two terms correct)
2		80	B1	
3		$\frac{1}{3}, \frac{7}{20}, \frac{3}{8}, \frac{2}{5}$	M1 A1	M1 for converting to decimals or a common denominator A1 cao
4		186	M1 M1 M1 A1	M1 for $\frac{1}{4} \times 360$ (= 90) M1 for 360 − 90 − 140 (= 130) M1 for $90 + 140 \times 0.5 + 130 \times 0.2$ A1 cao
5		0.976	B1	
6	(a)	49	B1	
	(b)	45	B1	
	(c)	41, 43, 47	B1	
7		30	M1 M1 A1	M1 for $5x + 4x + 90 = 360$ M1 for $9x = 270$ A1 cao

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