Quick paper N1

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 **Work out** the value of 3^4

.....

(1)

(Total for Question 1 is 1 mark)

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2 **Write** 5.386 27 **correct to 3 decimal places**.

.....

(1)

(Total for Question 2 is 1 mark)

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3 **(a)** **Simplify** $6 \times g \times h \times 4$

.....

(1)

(b) **Solve** $\frac{x}{4} = 3\frac{1}{2}$

$x =$ .....

(1)

(Total for Question 3 is 2 marks)

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4 **Work out** 30% of 90

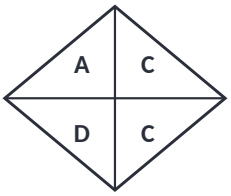
.....

(2)

(Total for Question 4 is 2 marks)

Turn over ►

5 Sam spins a fair 4-sided spinner.

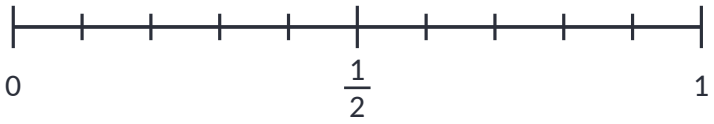


(a) On the probability scale, mark with a cross (×) the probability that the spinner will land on **C**.



(1)

(b) On the probability scale, mark with a cross (×) the probability that the spinner will land on **E**.



(1)

(Total for Question 5 is 2 marks)

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6 Mo buys

3 packets of crisps costing £1.20 for each packet
1 bottle of juice costing £1.80
2 pizzas

Mo pays with a £15 note.
He gets 80p change.
Mo works out that one pizza costs £4.50
Is Mo right?
You must show how you get your answer.

> **Remember** Change = money paid − total cost. Add up all the costs first.

(3)

(Total for Question 6 is 3 marks)

7

> **Remember** Add/subtract: make the denominators the same. Multiply: top × top, bottom × bottom. Divide: flip the second fraction and multiply. Change mixed numbers to top-heavy first.

(a) **Work out** $\frac{3}{5} \times \frac{2}{7}$

.....

(1)

(b) **Work out** $\frac{3}{4} - \frac{1}{3}$

.....

(2)

(Total for Question 7 is 3 marks)

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8 Lucy works in a shop.

Her normal rate of pay is £11 per hour.

When Lucy works more than 7 hours a day, she is paid overtime for each hour she works more than 7 hours.

Lucy's rate of overtime pay per hour is $1\frac{1}{2}$ times her normal rate of pay per hour.

On Tuesday Lucy worked for 9 hours.

Work out the total amount of money Lucy earned on Tuesday.

> **Remember** Overtime pay per hour = normal rate × the multiplier. Work out the normal hours and overtime hours separately.

£ .....

(4)

(Total for Question 8 is 4 marks)

TOTAL FOR PAPER IS 18 MARKS

N1 mark scheme

Q		Answer	Mark	Notes
1		81	B1	
2		5.386	B1	
3	(a)	$24gh$	B1	
	(b)	14	B1	
4		27	M1 A1	M1 for 10% = 9 or 0.3 × 90 A1 cao
5	(a)	Cross at $\frac{1}{2}$	B1	
	(b)	Cross at 0	B1	
6		No: one pizza costs £4.40	M1 M1 C1	M1 for 15 − 0.80 (= 14.20) M1 for (14.20 − 3.60 − 1.80) ÷ 2 C1 No with 4.40
7	(a)	$\frac{6}{35}$	B1	
	(b)	$\frac{5}{12}$	M1 A1	M1 for a common denominator of 12 A1 cao
8		110	M1 M1 M1 A1	M1 for 7 × 11 (= 77) M1 for 1.5 × 11 (= 16.50) M1 for 77 + 2 × 16.50 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