Mathematics
Test B – Paper 2

Calculator allowed

First name _____

Last name _____

School _____

Time: 1 hour

Marks for Test B Paper 2	
Page(s)	**Mark**
30–31	
32–33	
34–35	
36–37	
38	
Total	

Remember
- You may use a calculator for any question in this test.
- You will need: pen, pencil, rubber, ruler and a calculator.
- Some formulae you might need can be found on the inside back cover of this book or downloaded from www.brookworth.co.uk.
- This test starts with easier questions.

This pencil symbol means write down your answer or show your working and write down your answer.

Your marks

1 **(a)** David played 6 matches for his school football team last year.
He scored 9 goals in total.
Calculate the mean number of goals he scored per match.

..... *(1 mark)* ☐

(b) Roxanne played 4 matches for her school football team last year.
Her mean number of goals per match was 2.
Her median number of goals per match was 2.
The range of her goals per match was 4.
In each game she scored more goals than in the previous match.
She didn't score in the first match.

Fill in the empty boxes to show the number of goals Roxanne scored in each match:

Number of goals in match 1:	**0**
Number of goals in match 2:	
Number of goals in match 3:	
Number of goals in match 4:	

(2 marks) ☐

Page total ☐

Your marks

2 Here are two equations.

$4a + 8b = 20$

$3c - 2d = 5$

(a) Use the equations above to work out the value of these expressions. The first one has been done for you.

(i) $6c - 4d =$ ..... **10** .....

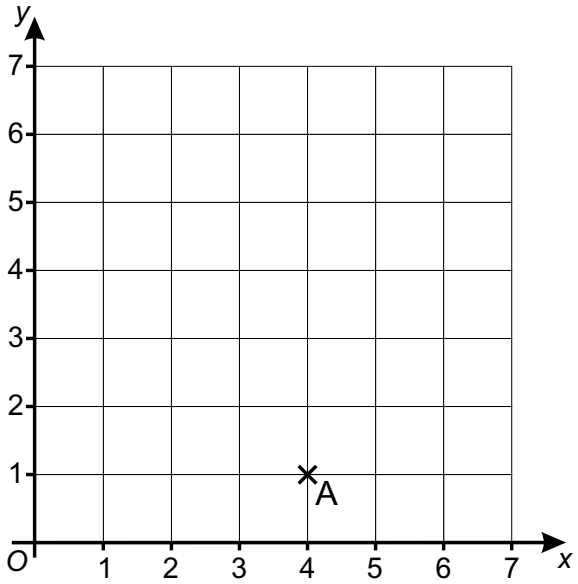
(ii) $a + 2b =$ ..... *(1 mark)*

(iii) $2d - 3c =$ ..... *(1 mark)*

(b) Use one or both of the equations to write down an expression that has a value of **15**.

..... = 15 *(1 mark)*

3



The point A lies on the line ***x* + *y* = 5**.

Mark with a cross another point that lies on the line ***x* + *y* = 5**.

(1 mark)

4 The label on a **250 g** bag of raisins shows this information:

RAISINS
250 g

Nutritional Information	
Protein	5.2 g
Carbohydrate	244 g
Fat	0.8 g

(a) How many grams of protein does **100 g** of raisins provide?

..... g *(2 marks)*

(b) What **percentage** of the raisins is carbohydrate?

..... % *(2 marks)*

Page total