

- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Show your working. Marks may be given for a correct method even if the answer is incorrect.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 8.
- You are expected to use a calculator in Section B of this paper.
- Use the π button on your calculator or take π to be 3.142 unless the question says otherwise.

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N B	SECTION B	
L	TOTAL	

This document consists of **8** printed pages.

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Formulae Sheet







Volume of prism = (area of cross-section) × length

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8 (a) Calculate.

$$\sqrt{6\cdot 4^2 + 5\cdot 1^2}$$

(**a**)[1]

(b) The answer to a calculation is 3.7 hours.

Write this time in hours and minutes.

(**b**) hours minutes [1]

9 At a party there are lots of packets of crisps. There are Plain, Bacon and Cheese flavours.

Steph takes a packet of crisps at random.

This table shows the probabilities of Steph getting the different flavours.

Flavour	Probability	
Plain	0.4	
Bacon	0.26	
Cheese		

Complete the table.

[2]

10 (a) Complete this table for y = 5 - 2x.

x	0	2	4
У	5		

(**b**) Draw the graph of y = 5 - 2x.



[2]

[1]

11 This stem and leaf diagram shows the times that a group of people took to do a fun run.

 3
 7
 8

 4
 0
 2
 5

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

 6
 1
 2
 3
 5
 5
 6
 7
 7

 7
 4
 5
 8
 9

Key: 5 3 represents 53 minutes

(a) What was the longest of these times?

(a) minutes [1]

(b) Find the median of these times.

(b) minutes [2]

(c) Juanita says that the range for these times is 38 to 78.
Explain the two errors that she has made.
1
2
[2]

- **12** Spandown school decides to give money raised for charity to *Water for Life* and *Cancer Research* in the ratio 3 : 1.
 - (a) Year seven gives £312 to *Water for Life*.

How much money does Year seven give to Cancer Research?

(a) £.....[2]

(b) Year eight raises $\pounds 516$ in total.

How much of this money do they give to Water for Life?



Describe fully the **single** transformation which maps shape **A** onto shape **B**.

......[3]

TURN OVER FOR QUESTION 14

Calculate the surface area of the pond.

Give the units of your answer.

14 A circular pond has radius $4 \cdot 1$ m.



.....[3]

15 (a) Write $6 \times p \times p \times p$ as simply as possible.

(**b**) Multiply out.

5(2x - 3)

(b)[1]

(c) Factorise.

7x + 21

(c).....[1]