

- 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.

FOR EXAMINER'S USE

SECTION B

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

SP (NF/CGW) T60665/2

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Formulae Sheet



Area of trapezium = $\frac{1}{2}(a+b)h$



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

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- 8 (a) Complete each sentence using a sensible **metric** unit.
 - (i) The distance from London to Manchester is 320[1]

(b) Write down the reading shown on each of these scales.



(b)(i)°C [1]



(ii) g [1]

9 (a) Write down a square number less than 20.

(**a**)[1]

- (**b**) Work out.
 - (i) 21²

(b)(i)[1]

(ii) $\sqrt{289}$

(ii) [1]

10 (a) Carla uses 0.5 litres of milk to make a milkshake.

Change 0.5 litres to millilitres.

(a) ml [1]

(b) Jake buys a 2 litre carton of milk. He drinks 450 ml of this.

How much milk is left in the carton? Give your answer in millilitres.

(b) ml [2]

(c) This formula can be used to convert roughly between pints and litres.

Number of pints – Multiply by 0.57 - Number of litres

Use the formula to complete this label.



[1]

Kirsten is doing a project about the weather.She records the rainfall in millimetres every day for 10 days in June.

Here are her results.

| Date | 14th | 15th | 16th | 17th | 18th | 19th | 20th | 21st | 22nd | 23rd |
|---------------|------|------|------|------|------|------|------|------|------|------|
| Rainfall (mm) | 2 | 2 | 2 | 0 | 6 | 22 | 11 | 7 | 14 | 8 |

(a) Work out the mean rainfall.

(a) mm [3]

(b) Work out the range.

(**b**) mm [1]

12 This is a plan view of Stuart's shed.



(a) Stuart's ladder is 2.4 metres long. He wants to hang it inside the shed, on the wall under the window.

Can Stuart fit the ladder on this wall? Give a reason for your answer.

Write Yes or No.

(b) Stuart wants to put a workbench into the shed. The workbench is 1 metre long and 0.8 metres wide.

Draw a possible position for it on the plan view. Use a scale of **5 centimetres to 1 metre**.

[2]

13 Greenford Computers use this formula to work out the cost of a computer repair.

C = 25 + 12h

C is the cost of the repair in pounds. h is the length of time taken in hours.

(a) What is the cost of a repair that takes 3 hours?

(a) £.....[2]

Townhead Repairs use this graph to work out the cost of a computer repair.



(b) How much do *Townhead Repairs* charge for a repair that takes 2 hours?

(c) Which company is cheaper for a repair that takes 4 hours? How much cheaper is it?

(c) is cheaper by £.....[3]

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