



Centre Number

71

Candidate Number

General Certificate of Secondary Education
2011

Mathematics

Module N1 Paper 1
(Non-calculator)
Foundation Tier

[GMN11]

TUESDAY 31 MAY

9.15 am–10.00 am



TIME

45 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Answer **all twelve** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You **must not** use a calculator for this paper.

INFORMATION FOR CANDIDATES

The total mark for this paper is 44.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

You should have a ruler, compasses, set-square and protractor.

For Examiner's
use only

| Question Number | Marks |
|-----------------|-------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |

Total
Marks

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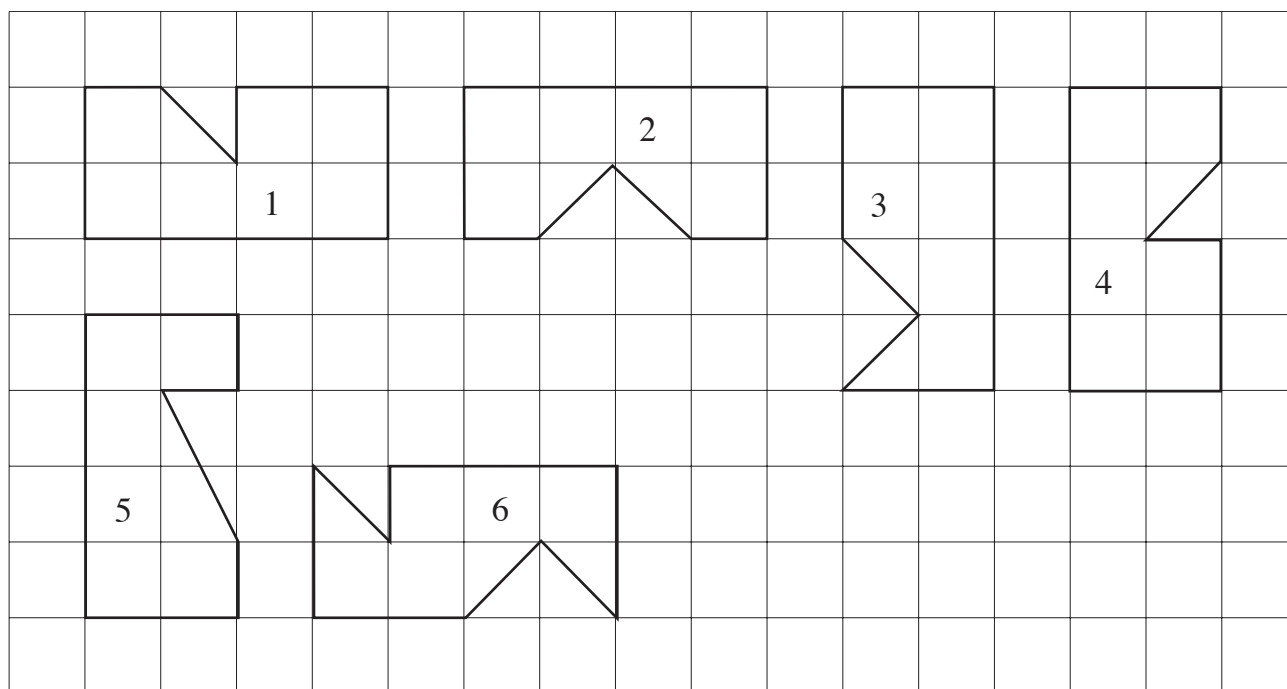
| | | |
|----|----|----|
| 23 | 75 | 44 |
| 50 | 12 | 47 |
| 14 | 49 | 24 |

| Examiner Only | |
|---------------|--------|
| Marks | Remark |
| | |

Answer _____ [2]

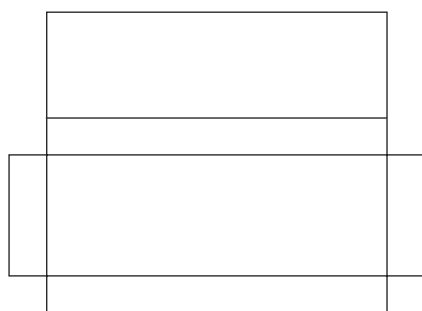
(b) Six shapes are shown.

Which two shapes are congruent?



Answer Shape _____ and shape _____ are congruent. [1]

(c)



This is a net of which solid?

Answer _____ [1]

| Examiner Only | |
|---------------|--------|
| Marks | Remark |
| | |
| | |
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| | | | | | | |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Fruit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Iced Sponge | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| Chocolate | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Lemon | <input type="radio"/> | <input type="radio"/> | | | | |
| Carrot | | | | | | |

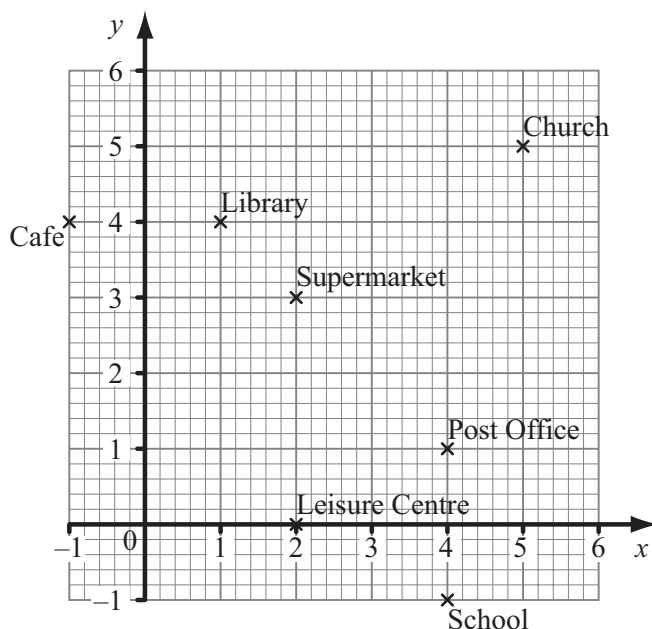
- = _____ cakes [1]

- Answer _____ [1]

- Answer** [1]

- (d)** Complete the row of the pictogram for carrot cakes. [2]

6



The grid shows the position of places in a town.

- (a)** Write down the co-ordinates of the Leisure Centre.

Answer (_____ , _____) [1]

- (b)** Complete the sentence:

The _____ has co-ordinates $(4, -1)$. [1]

| Examiner Only | |
|---------------|--------|
| Marks | Remark |
| | |

(i) $266 \div 7$

Answer _____ [1]

(ii) $\frac{3}{4}$ of 48

Answer _____ [2]

(iii) 0.6×0.4

Answer _____ [1]

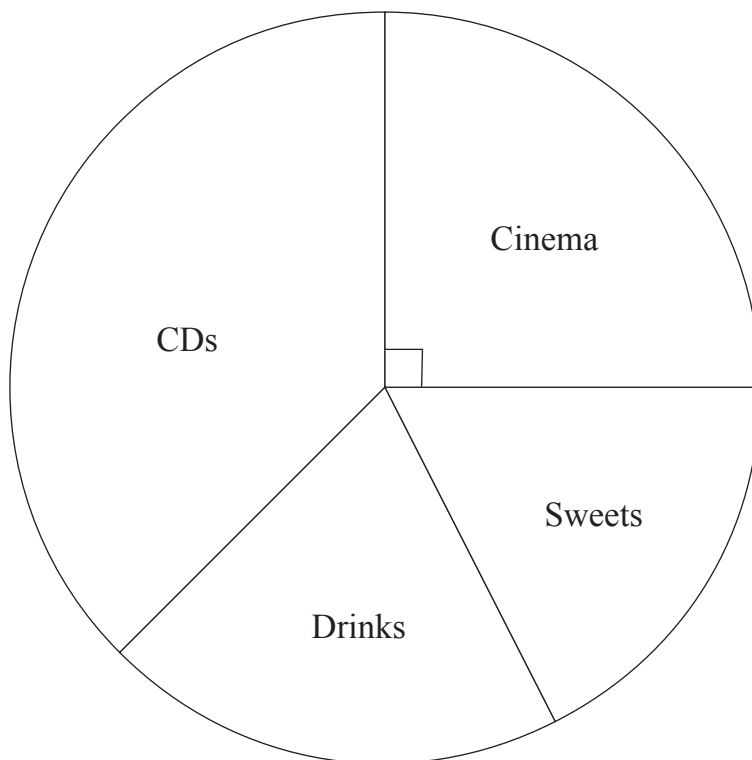
(iv) $\frac{5}{6} - \frac{1}{2}$

Answer _____ [2]

(b) Write down the value of $\sqrt{81}$

Answer _____ [1]

| Examiner Only | |
|---------------|--------|
| Marks | Remark |
| | |

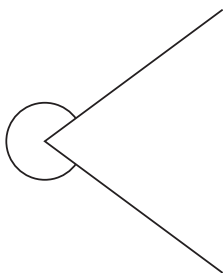


- Answer £ _____ [1]

- Answer £ _____ [1]

- Answer _____ ° [1]

[Turn over



(i) opposite (ii) reflex
(iii) acute (iv) obtuse

[1]

(b) In the diagram PQR is a straight line.

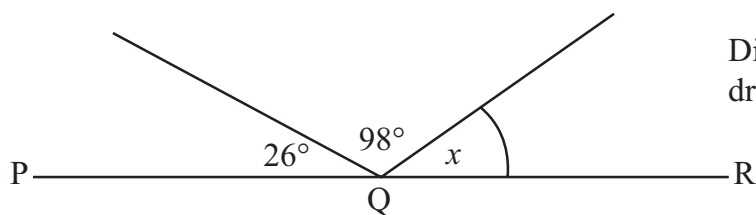


Diagram not
drawn accurately

Calculate the size of angle x

Answer $x =$ _____ $^{\circ}$ [1]

(c) Calculate the size of angle y

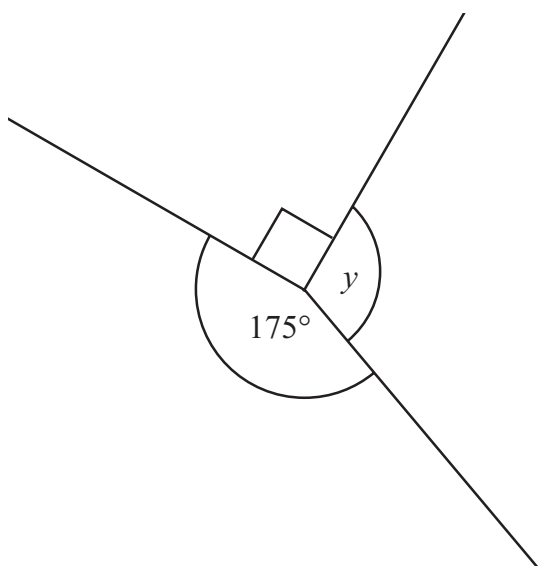


Diagram not
drawn accurately

Answer $y =$ _____ $^{\circ}$ [1]

| Examiner Only | |
|---------------|--------|
| Marks | Remark |
| | |

(b) Solve $3t - 7 = 5$

Answer $t =$ _____ [2]

9 (a) Calculate 80% of 40

Answer _____ [2]

(b) Work out $7.3 - 3.86$

Answer _____ [1]

6385.06R

10 The stem and leaf diagram shows the weights of bags of onions.

| | |
|---|-------------|
| 3 | 5 7 8 9 |
| 4 | 2 5 6 8 9 9 |
| 5 | 1 3 4 |

Key 3 | 5 = 3.5 kg

Write down

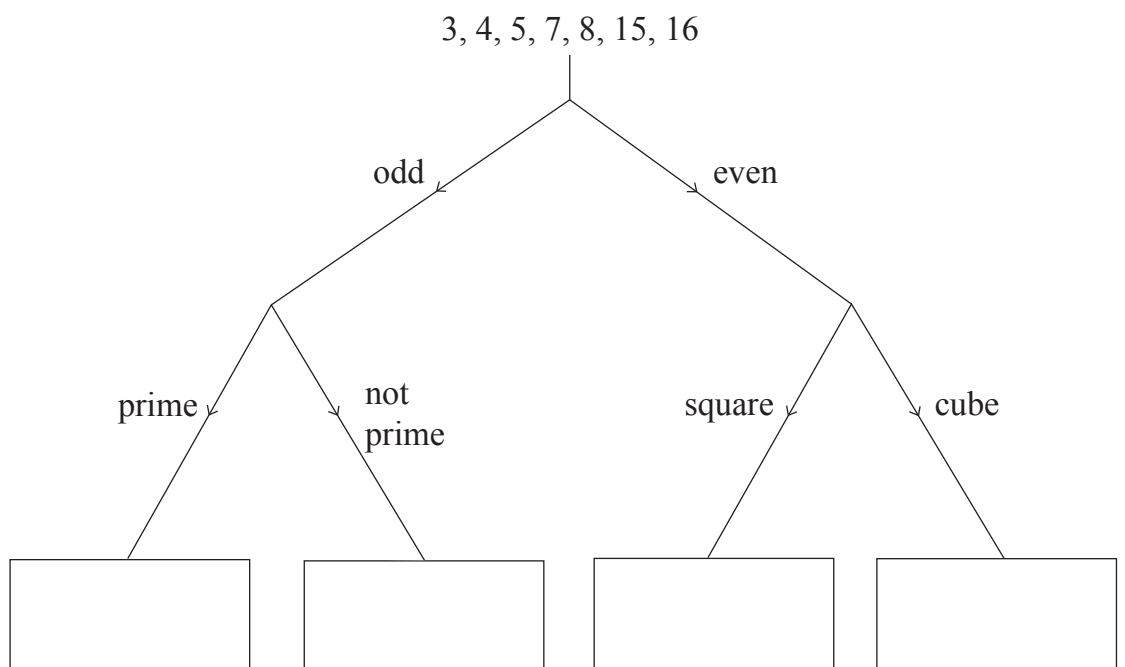
(a) the range,

Answer _____ kg [1]

(b) the median.

Answer _____ kg [1]

11 Using the decision tree diagram, sort these numbers into the correct boxes.



[2]

A map of a lake with a north arrow pointing up. Two points are marked with 'x': 'Atlas' on the left side and 'Barracuda' on the bottom side. A small island with a palm tree is located near the bottom center.

(a) Use the diagram to calculate the actual distance of the Atlas from the Barracuda.

Answer _____ km [2]

- (b)** A new hotel, the Capri, is being built 25 km from the hotel Atlas on a bearing of 110° . Mark the correct position of this new hotel. [2]

THIS IS THE END OF THE QUESTION PAPER

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