



Rewarding Learning

Centre Number

71	
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Candidate Number

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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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1

23	75	44
50	12	47
14	49	24

Examiner Only	
Marks	Remark

(a) From the numbers in the grid, write down

(i) two numbers with a total of 70,

Answer _____, _____ [1]

(ii) two numbers with a difference of 30,

Answer _____, _____ [1]

(iii) two factors of 48,

Answer _____, _____ [1]

(iv) a square number.

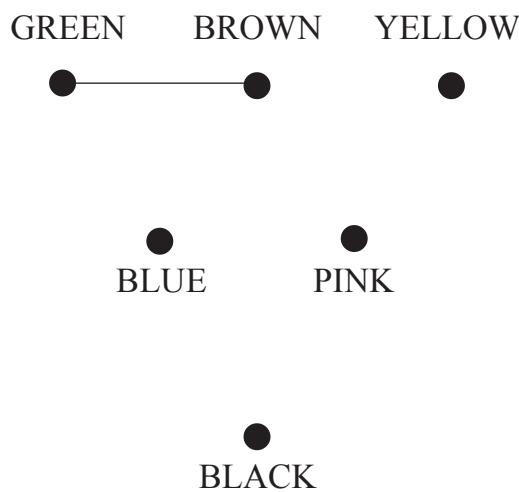
Answer _____ [1]

(b) What is the biggest number you can get by multiplying any two numbers in the grid?

Answer _____ [2]

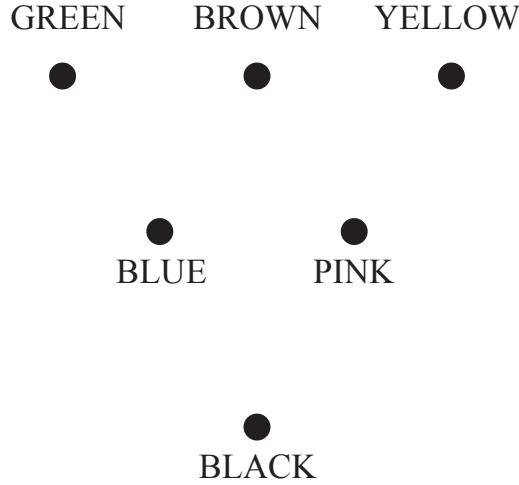
2 (a) Six snooker balls are spaced as shown.

Examiner Only	
Marks	Remark



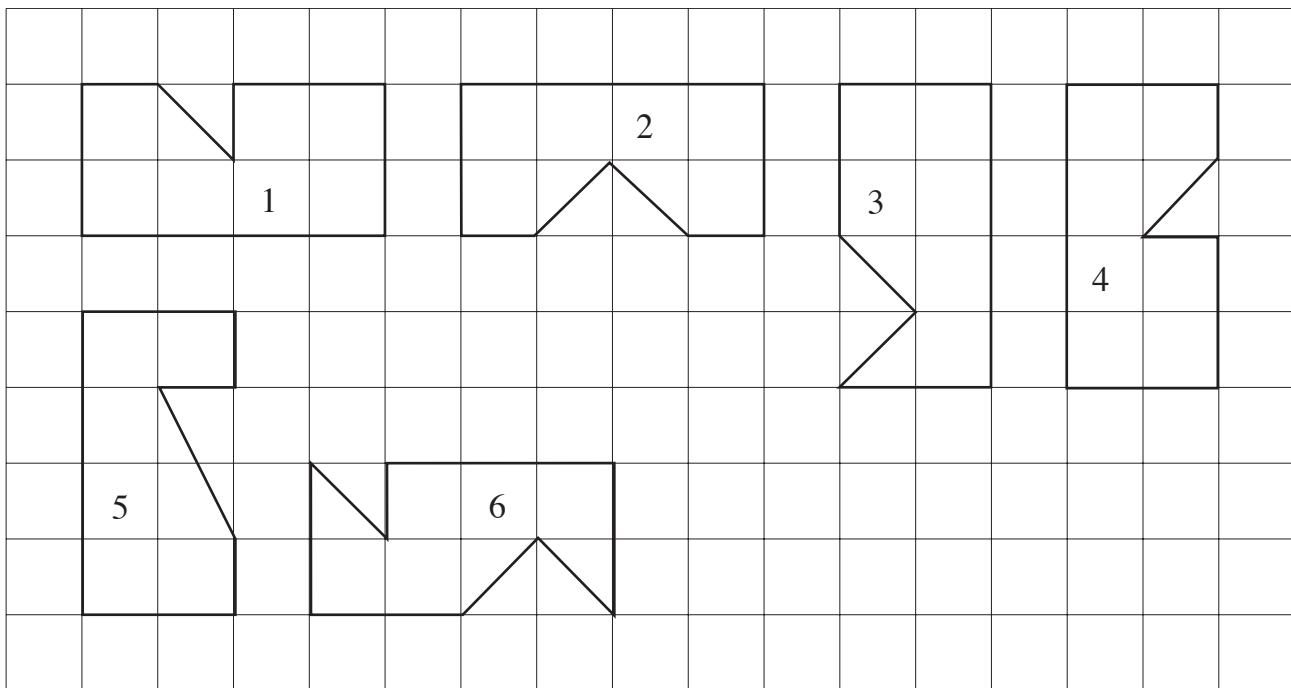
(i) On the diagram above, draw another straight line linking 2 balls to make an obtuse angle. [1]

(ii) On the diagram below, draw 2 straight lines linking balls to make an acute angle. [1]



(b) Six shapes are shown.

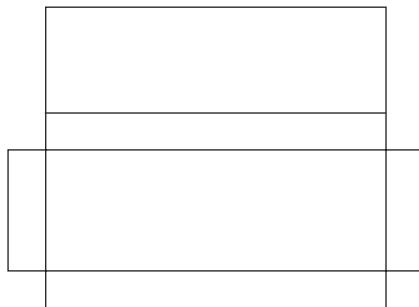
Which two shapes are congruent?



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

Examiner Only	
Marks	Remark

(c)



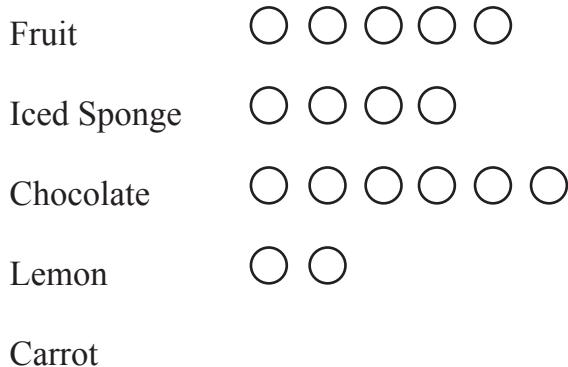
This is a net of which solid?

Answer _____ [1]

3 80 cakes were sold in a bakery. The first four rows of the pictogram are shown below.

Examiner Only	
Marks	Remark

CAKE SALES



(a) 24 chocolate cakes were sold.

Complete the key:

= _____ cakes [1]

(b) How many iced sponge cakes were sold?

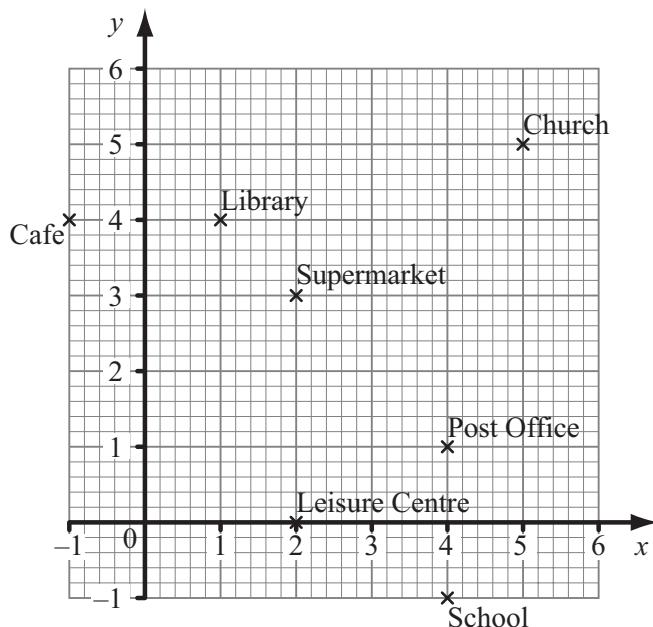
Answer _____ [1]

(c) How many more fruit cakes than lemon cakes were sold?

Answer _____ [1]

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

4



Examiner Only

Marks

Remark

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]

5 (a) Calculate

(i) $266 \div 7$

Examiner Only	
Marks	Remark

Answer _____ [1]

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

Answer _____ [2]

(iii) 0.6×0.4

Answer _____ [1]

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

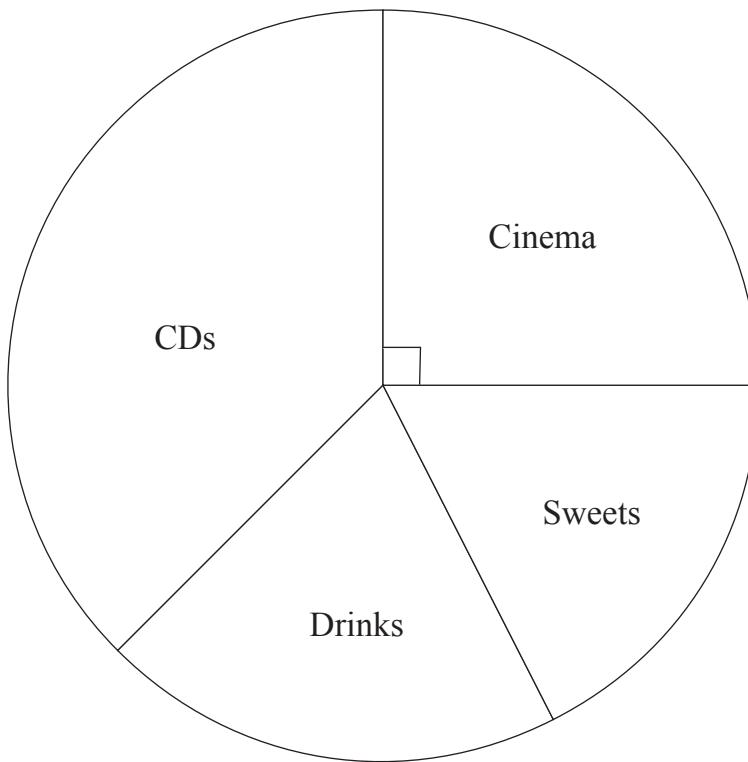
Answer _____ [2]

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

Answer _____ [1]

6 The pie chart shows how Angie spent £16 pocket money.

Examiner Only	
Marks	Remark



(a) How much money was spent on the cinema?

Answer £ _____ [1]

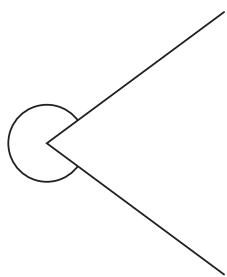
(b) Estimate how much money was spent on CDs.

Answer £ _____ [1]

(c) Measure the angle for drinks.

Answer _____ ° [1]

7 (a) Circle the correct answer.

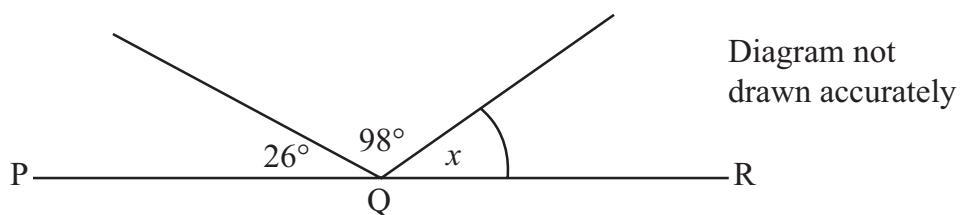


The angle marked is

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

[1]

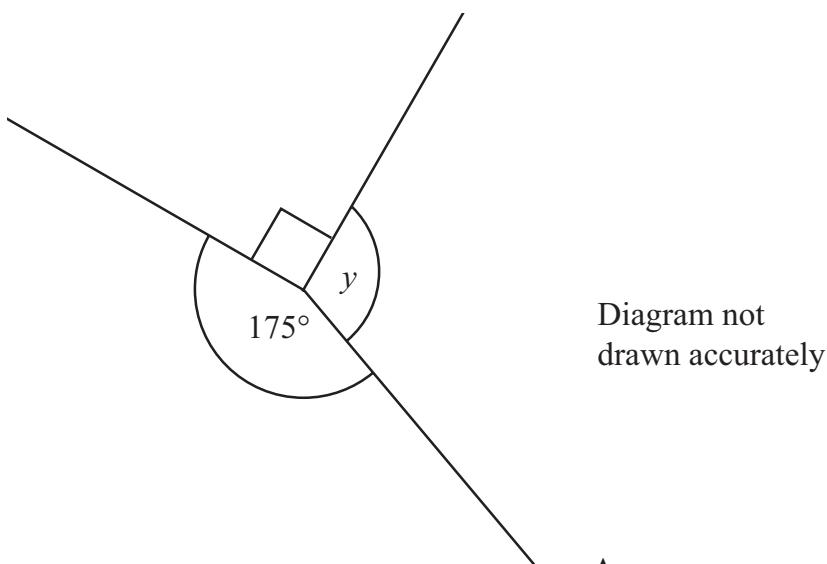
(b) In the diagram PQR is a straight line.



Calculate the size of angle x

Answer $x = \underline{\hspace{2cm}}$ ° [1]

(c) Calculate the size of angle y



Answer $y = \underline{\hspace{2cm}}$ ° [1]

Examiner Only	
Marks	Remark

8 (a) $5a = 14$ Write down the value of $15a$.

Examiner Only	
Marks	Remark
Answer _____ [1]	

(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]

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

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Marks

Remark

Write down

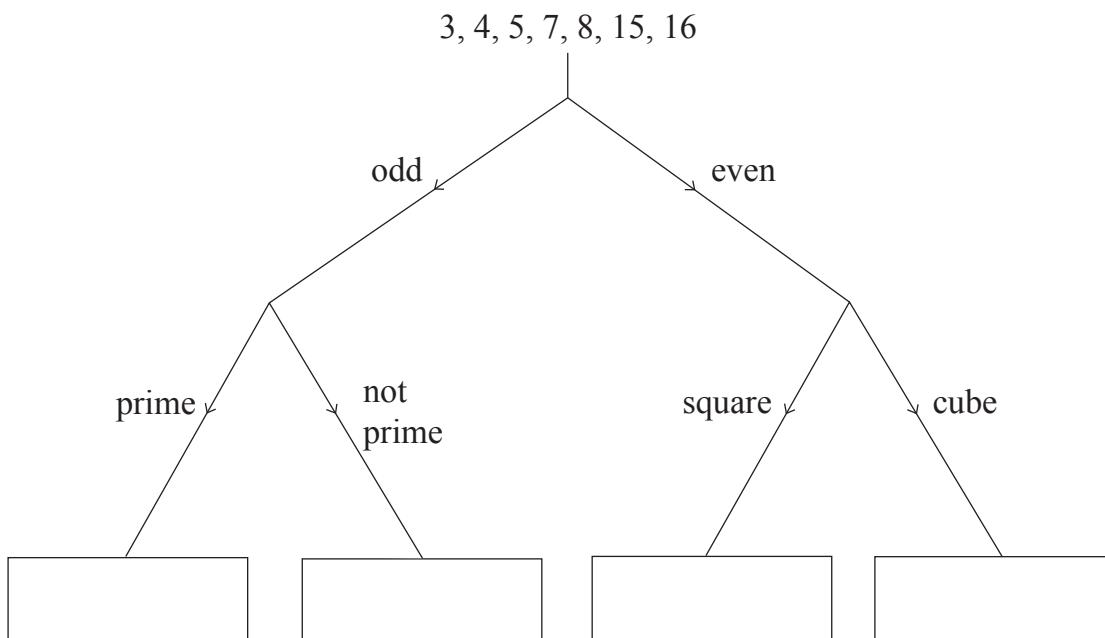
(a) the range,

Answer _____ kg [1]

(b) the median.

Answer _____ kg [1]

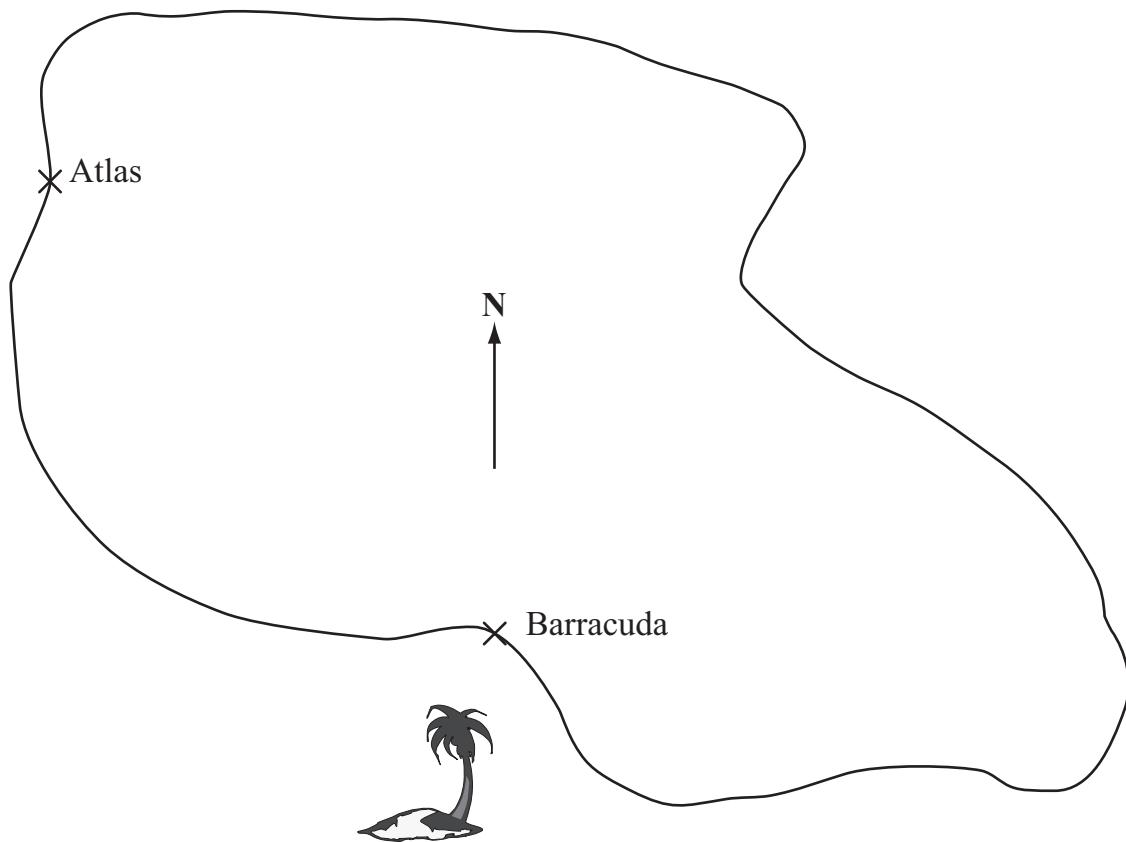
11 Using the decision tree diagram, sort these numbers into the correct boxes.



[2]

12 An outline map of Tanua Island is shown.

The Atlas and the Barracuda are two hotels on this island.



Scale: 1 cm to 5 km

(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

Examiner Only	
Marks	Remark

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