

Write your name here

Surname

Other names

**Edexcel
International
Primary Curriculum**

Centre Number

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Candidate Number

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Mathematics

Year 6 Achievement Test

Tuesday 12 June 2012 – Morning
Time: 1 hour

Paper Reference

JMA01/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- Calculators are **NOT** allowed.



Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

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Turn over ►

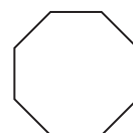
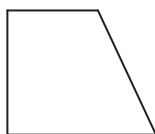
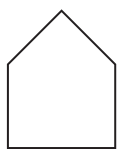
PEARSON

SECTION A

Answer ALL questions.

In Section A put a cross in one box to indicate your answer. If you change your mind, put a line through the box and then put a cross in another box . Each question in Section A is worth one mark.

1 Which shape is a pentagon?



2 Calculate $302 - 10$

202

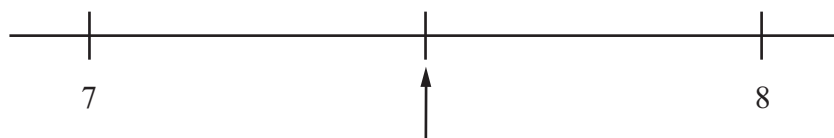
292

298

312

3 Look at the number line.

What number is the arrow pointing to?



7

8

7.1

7.5

4 What is 258 rounded to the nearest hundred?

200

250

260

300



5 $63 - \square = 29$

What is the missing number?

32

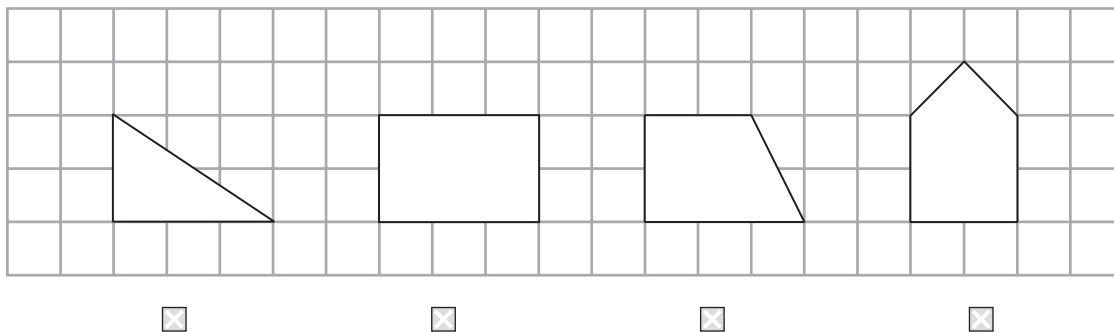
34

46

92

6 Look at the shapes drawn on a square grid.

Which shape contains **exactly** three right angles?



7 A bag contains 4 cakes.

Joseph needs 30 cakes.

How many bags must he buy?

120

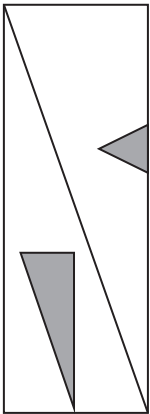
34

8

7

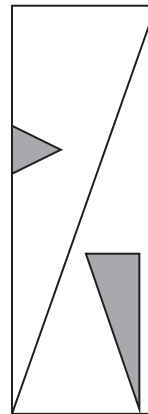
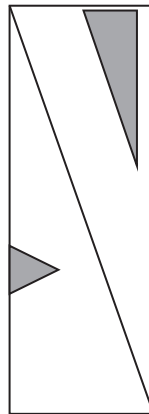
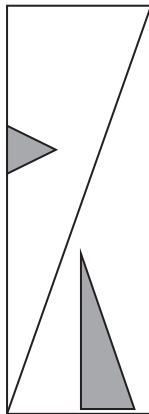
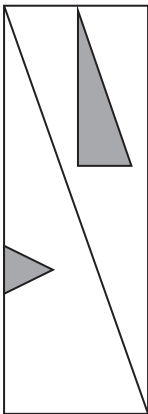


8 Here is a tile.



The tile is rotated.

Which diagram shows the tile after it has been rotated?



9 Which number sentence is correct?

$5 \times 5 = 6 \times 4$



$6 \times 4 = 8 \times 3$



$8 \times 3 = 5 \times 5$



$9 \times 3 = 12 \times 2$



10 Which fraction is equivalent to $\frac{1}{4}$?

$$\frac{2}{5}$$



$$\frac{4}{10}$$



$$\frac{4}{12}$$



$$\frac{5}{20}$$



11 Which measurement is equivalent to 0.2 m?

2 mm



2 cm



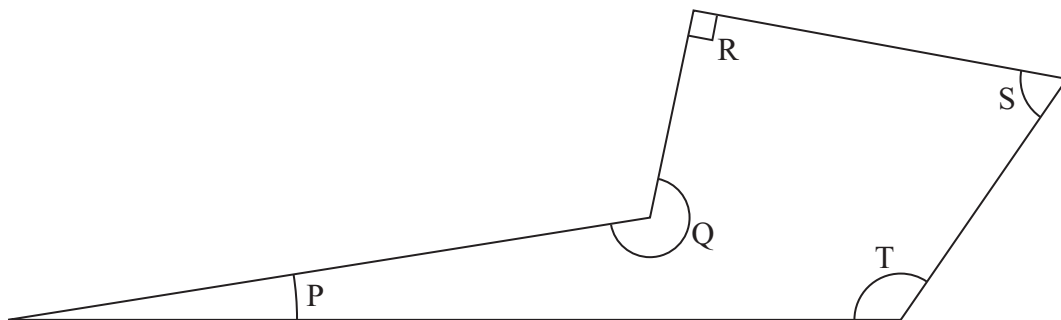
20 cm



200 cm



12 Here is a shape with angles P, Q, R, S and T



Which list shows the angles in order of size, starting from the smallest?

PRSTQ



PSRTQ



RSQTP

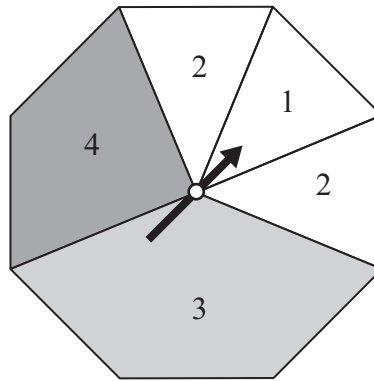


SPRQT



13 Here is a spinner.

It is a regular octagon.



Salma spins the pointer on the spinner.

What is the most likely score?

1

2

3

4

14 What is 60% of 60?

6

10

36

3 600

15 Ali asks nine friends,

“How many books do you have in your bag?”

Here are the results:

3 4 6 6 5 4 8 14 4

What number of books is the mode?

4

5

6

9



16 Which of these shapes has 5 faces and 5 vertices?

square-based
pyramid



pentagonal prism



cuboid



triangular prism



17 Which one of these sets of numbers contains only prime numbers?

23, 27, 29



41, 43, 47



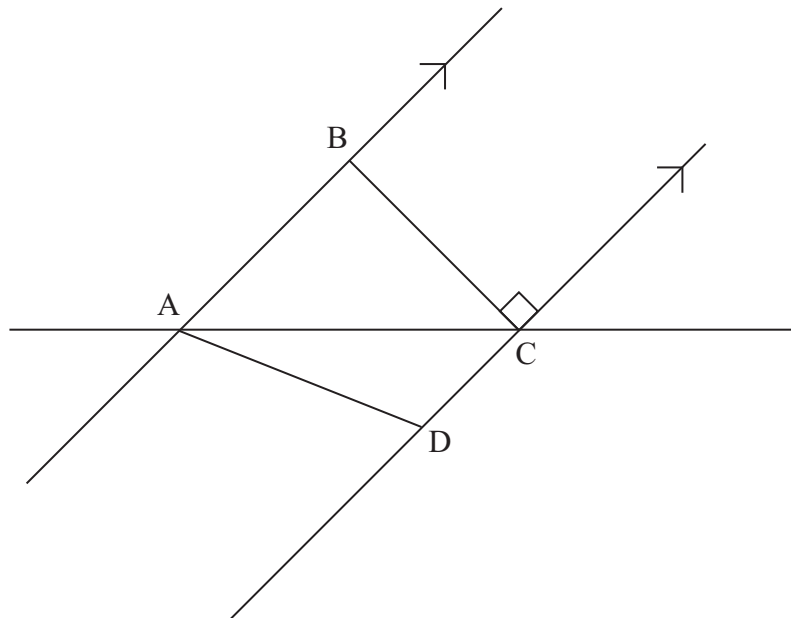
61, 63, 67



83, 87, 89



18 Look at the diagram.



Which two lines are perpendicular to each other?

AB and AC



AB and AD



AB and BC



AB and CD



19 Nathan has 1.02 kg of flour.

He uses $\frac{1}{2}$ kg to make a loaf of bread.

How much flour does he have left?

52 g

502 g

510 g

520 g

20 Which set of numbers is correctly ordered from smallest to largest?

0.5, -2, -5, 2

0.5, -5, -2, 2

-2, -5, 0.5, 2

-5, -2, 0.5, 2

TOTAL FOR SECTION A IS 20 MARKS



SECTION B

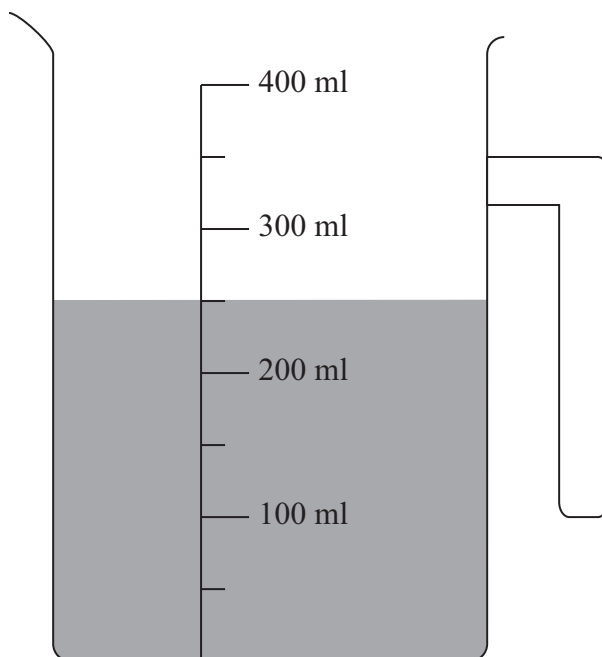
Answer ALL questions.

21 Write in the missing number.

$$4 \times \boxed{} = 120$$

(Total for Question 21 is 1 mark)

22 Here is a jug of water.



How much water is in the jug? ml

(Total for Question 22 is 1 mark)

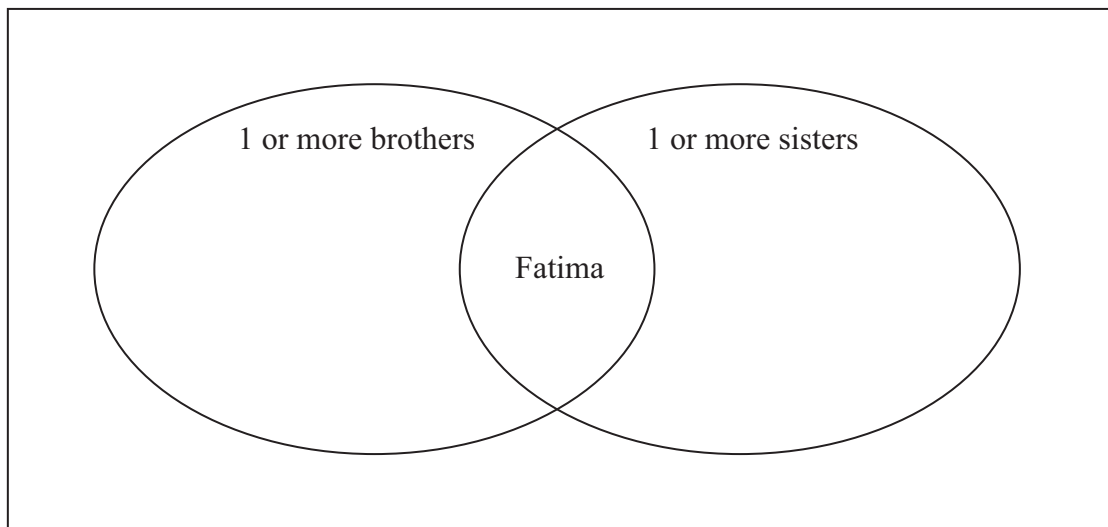


23 The table shows the number of brothers and sisters of four friends

Name	Number of brothers	Number of sisters
Fatima	2	2
Jana	0	3
Mariam	0	0
Sara	4	1

Put the names into the correct places on the sorting diagram.

One is done for you.



(Total for Question 23 is 2 marks)



24 The numbers in this sequence double each time.

Write in the missing numbers.

<input type="text"/>	36	72	144	288	<input type="text"/>
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(Total for Question 24 is 2 marks)

25 Mohamed shares a pizza with two of his friends.

Ahmed has 35% of the pizza.

Hassan has 25% of the pizza.

Mohamed eats the rest.

What percentage of the pizza does Mohamed eat?

..... %

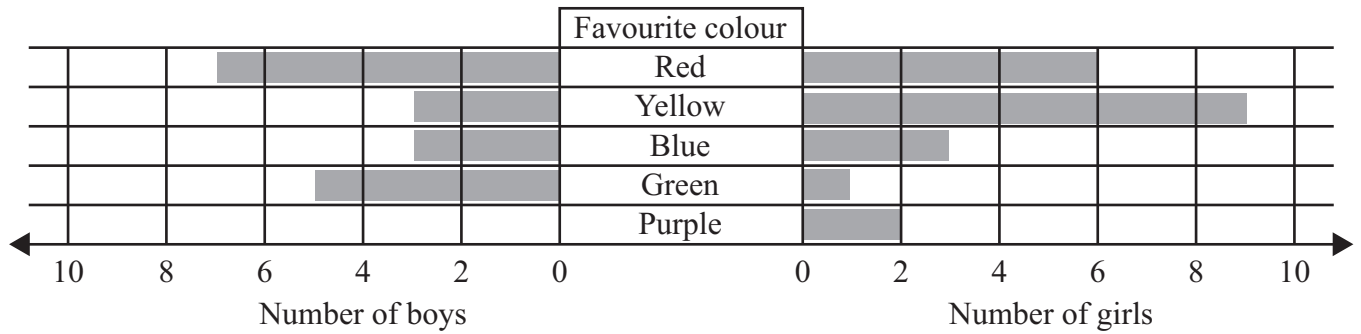
(Total for Question 25 is 1 mark)



26 Sara asks the children in her class,

“What is your favourite colour?”

The chart shows her results.



(a) How many more girls chose red than green?

..... girls
(1)

(b) How many children chose blue?

..... children
(1)

(c) What is the most popular colour in Sara’s class?

.....
(1)

(Total for Question 26 is 3 marks)



27 Mrs Patel has two children, Ali and Omar.

Omar is 6 years younger than Ali.
Omar is a quarter of the age of his mother.
Ali is 15 years old.

How old is Mrs Patel?

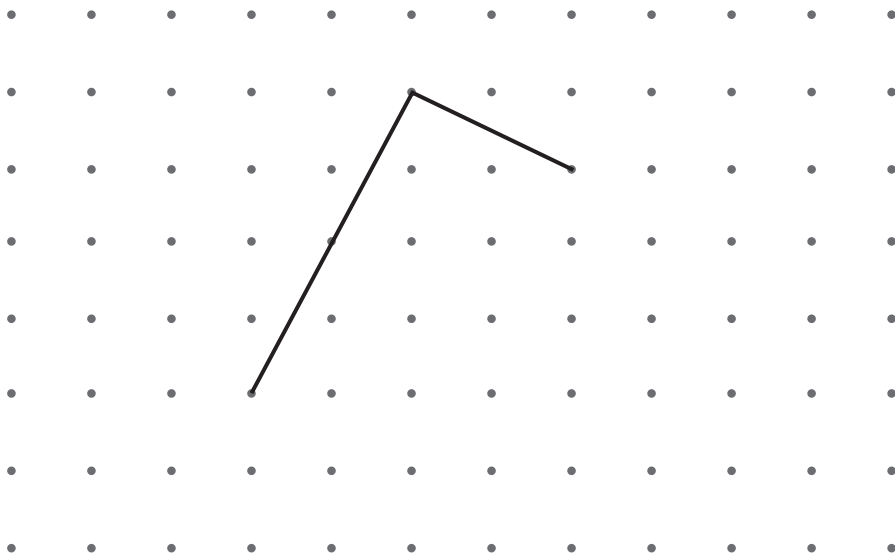
..... years old

(Total for Question 27 is 2 marks)

28 Two sides of a rectangle have been drawn on the square dotted grid.

Complete the rectangle.

Use a ruler.



(Total for Question 28 is 1 mark)



29 Here are three signs

>

<

=

Write the correct sign in each box.

12×8

13×7

$72 \div 6$

$108 \div 9$

$(5 \times 6) + 7$

$5 \times (6 + 7)$

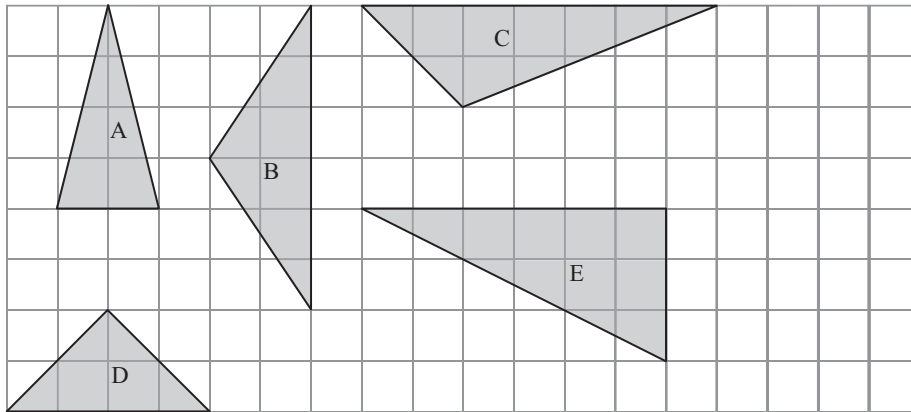
(Total for Question 29 is 2 marks)

30 Write all the numbers that are factors of **both 30 and 45**

.....
(Total for Question 30 is 2 marks)



31 Here are five triangles on a square grid.



Complete the table.

One is done for you.

	Is it an isosceles triangle?	Is it a right-angled triangle?
A	yes	no
B		
C		
D		
E		

(Total for Question 31 is 2 marks)

32 (a) Calculate

$$4004 - 393 = \boxed{}$$

(1)

(b) Calculate

$$393 \times 4 = \boxed{}$$

(1)

(Total for Question 32 is 2 marks)



33 Mrs Smith is organising a party.

It costs \$60 to hire a room.
Food costs \$7 for each person.

(a) How much does it cost to hold a party for 10 people?

\$
(1)

(b) Mrs Smith has \$235 to spend on the party.

What is the greatest number of people she can invite?

..... people
(2)

(Total for Question 33 is 3 marks)

34 Here are three statements.

$\frac{1}{3}$ equals 0.3

$\frac{1}{3}$ is greater than 0.3

$\frac{1}{3}$ is less than 0.3

Circle the correct statement above.

Explain why it is correct.

.....
.....
.....
.....

(Total for Question 34 is 1 mark)



35 There are 250 sweets in a jar.



Sarah takes $\frac{2}{5}$ of the sweets and gives the jar to Fatima.

Fatima takes $\frac{3}{5}$ of the sweets which are left in the jar, and gives the jar to Aya.

Aya takes all the sweets which are now left.

How many sweets does each girl take?

Sarah takes sweets.

Fatima takes sweets.

Aya takes sweets.

(Total for Question 35 is 3 marks)



36 (a) Salma and Shabana like doing the long jump.

Salma jumped 196 cm

Shabana jumped 2.2 m

How much further did Shabana jump than Salma?

..... cm

(1)

(b) Adib ran 100 m in 16 seconds, rounded to the nearest second.

What was his fastest possible time?

..... seconds

(1)

(Total for Question 36 is 2 marks)

37 Here is a triangle inside a rectangle.

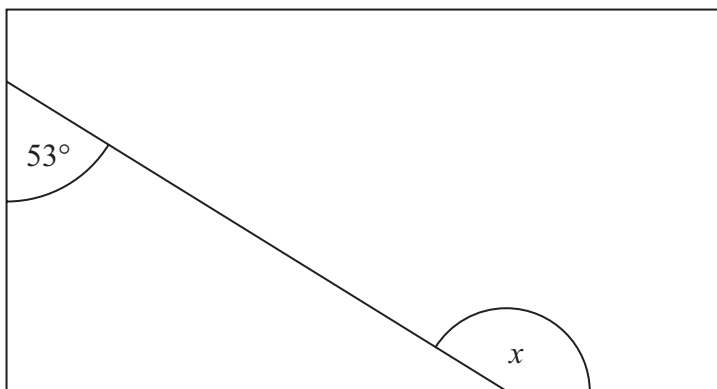


Diagram **NOT**
accurately drawn

Calculate the size of angle x

.....

(Total for Question 37 is 2 marks)



38 Write these numbers in order of size, starting with the smallest.

3.7

7.7

7.03

3.37

7.373

smallest

largest

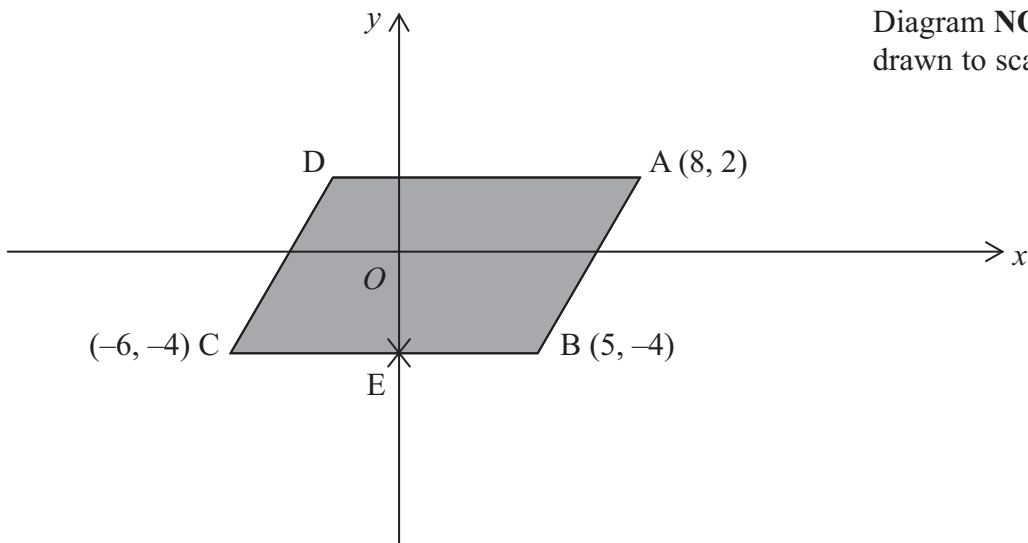
(Total for Question 38 is 1 mark)



P 4 1 3 2 2 A 0 1 9 2 4

39 ABCD is a parallelogram.

Diagram **NOT**
drawn to scale



(a) What are the coordinates of D?

.....
(1)

(b) E is a point on the perimeter of the parallelogram.

What are the coordinates of E?

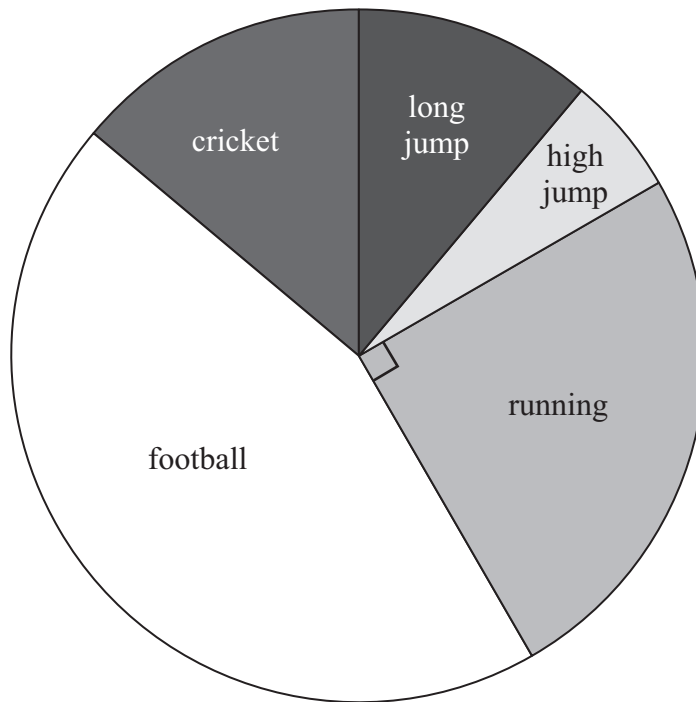
.....
(1)

(Total for Question 39 is 2 marks)



40 Sam asked 108 children to choose their favourite sport.

Here are the results.



(a) How many children chose running?

..... children
(1)

(b) 15 children chose cricket.

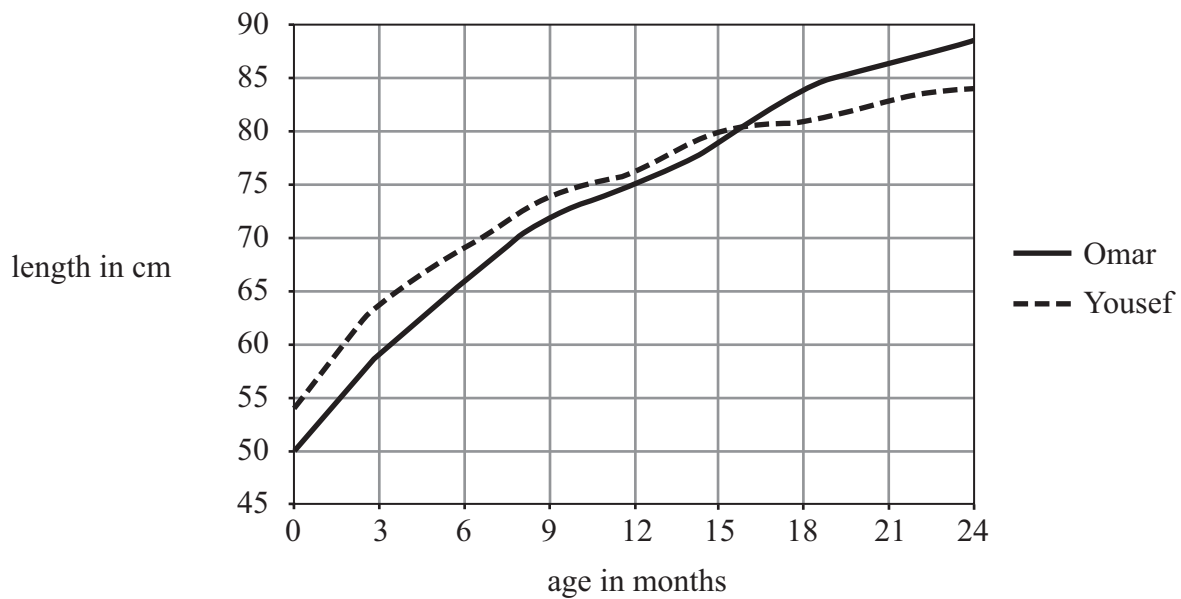
Estimate the number of children who chose football

..... children
(1)

(Total for Question 40 is 2 marks)



41 The graph shows the lengths of two babies, Omar and Yousef, during the first 2 years of their lives.



(a) At birth, Yousef was longer than Omar.

How many centimetres longer?

..... cm
(1)

(b) At what age were the babies the same length?

..... months
(1)

(c) How many centimetres did Omar grow in the second year of his life (from 12–24 months)?

..... cm
(1)

(Total for Question 41 is 3 marks)

TOTAL FOR SECTION B IS 40 MARKS

TOTAL FOR PAPER IS 60 MARKS



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