Cambridge Assessment International Education

Cambridge Primary Sample Test

For use with curriculum published in September 2020

Mathematics Paper 2

Stage 6

45 minutes

Name .....

Additional materials: Calculator
Compasses
Protractor
Tracing paper (optional)

INSTRUCTIONS

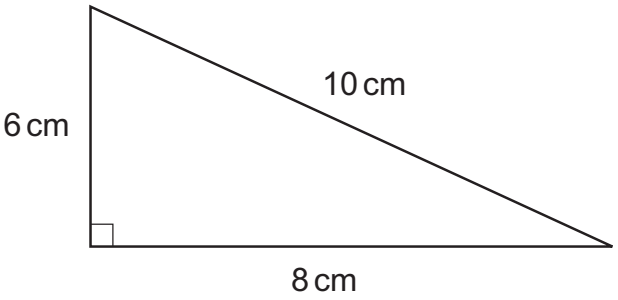
- Answer **all** questions.
- Write your answer to each question in the space provided.
- You should show all your working on the question paper.
- You may use a calculator.

INFORMATION

- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [ ].

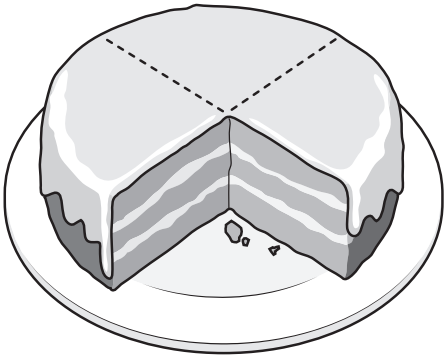
1 Calculate the area of the right-angled triangle.

Not drawn to scale



..... cm^2 [1]

2 Lily has $\frac{3}{4}$ of a cake.



She cuts her cake into 6 equal pieces.

What fraction of the **whole** cake is each piece?

..... [1]

3 Draw a ring around the number which is the same as 3 tens and 67 thousandths.

3.0067 3.067 30.0067 30.067 30.67

[1]

4 Naomi collects sets of data from people in her school.

A Height in centimetres
B Length of hand in centimetres
C Length of foot in centimetres
D Age in years

Naomi is trying to find out if people with long hands also have long feet.

(a) Draw a ring around the **two** sets of data that are most useful.

A **B** **C** **D**

[1]

(b) Tick (✓) the most suitable diagram to present the data.

bar chart ☐

waffle diagram ☐

pie chart ☐

scatter graph ☐

line graph ☐

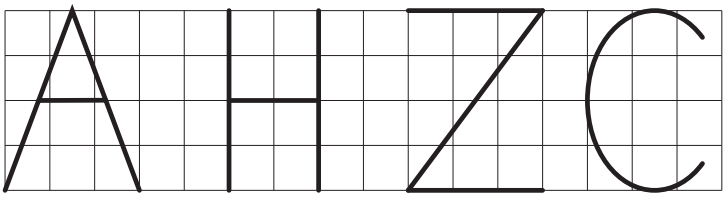
[1]

5 Complete the table of equivalent values.

Fraction	Decimal	Percentage
$\frac{1}{2}$		50%
	0.3	
$\frac{63}{100}$		

[2]

6 Here are some letters drawn on squared paper.



Write down each letter in the correct place in the table.

No lines of symmetry	Exactly 1 line of symmetry	Exactly 2 lines of symmetry

[1]

7 Here are three number cards.

10	100	1000

Use **two** of the cards to complete the number sentence.

$6.043 \times$ ☐ $\div$ ☐ $= 604.3$

[1]

8 Here are some words.

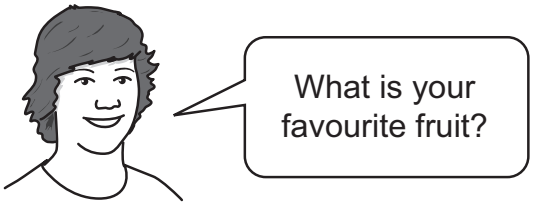
centre	radius	diameter	circumference

Use some of these words to complete the sentences.

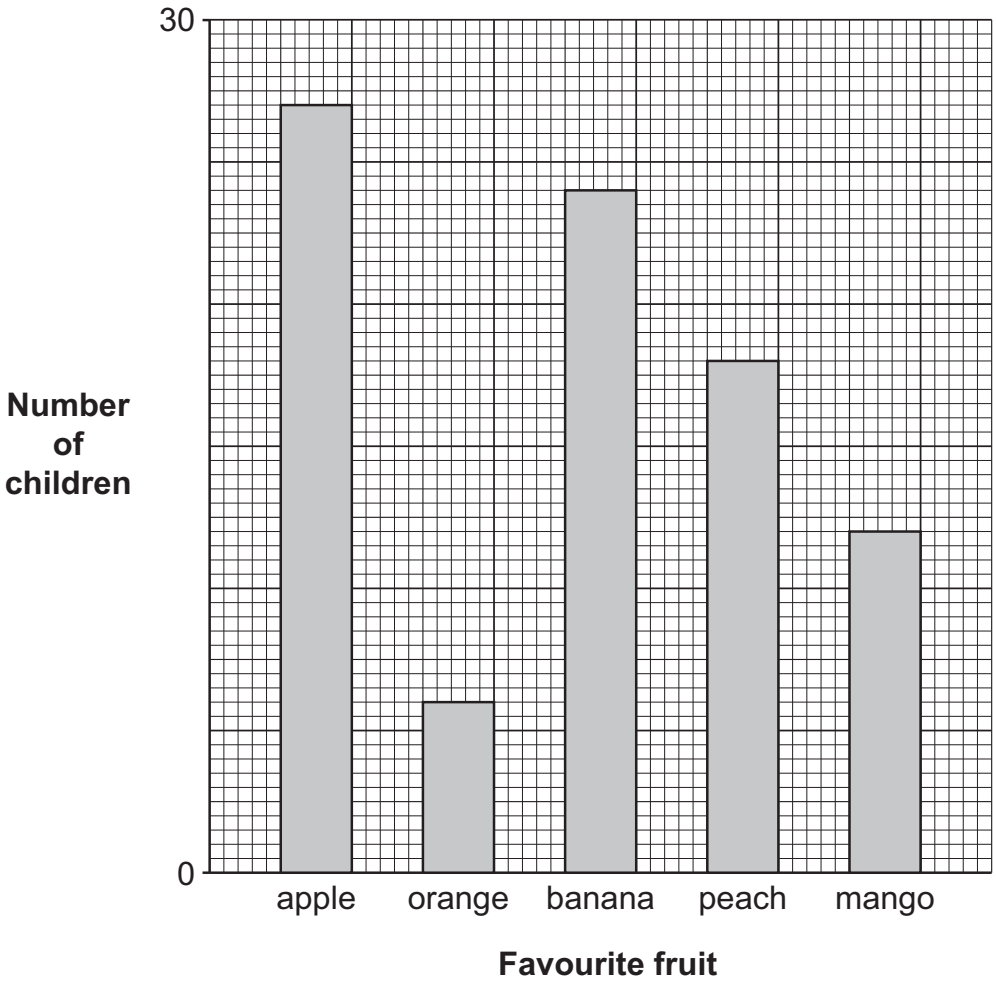
(a) The perimeter of a circle is the ..... . [1]

(b) The ..... is twice the length of the ..... . [1]

9 Mike asks the children in his class,



He shows the information in a bar chart.



Which fruit is twice as popular as mango? .....

Explain how the graph shows this.

.....

..... [1]

10 Complete this statement.

4 : 10 is equivalent to ..... : 30

[1]

11 **(a)** Calculate 35% of $60

$ ..... [1]

(b) Increase 80 kg by 5%.

..... kg [1]

12 Tick (✓) **all** the statements that are true.

A bottle with a capacity of $\frac{1}{2}$ litre can hold a volume of 1 litre. ☐

A bottle with a capacity of 1 litre can hold a volume of 1 litre. ☐

A bottle with a capacity of 1 litre can hold a volume of $\frac{1}{2}$ litre. ☐

[1]

13 Draw the set of points that are exactly 5 cm from point ***A***.

• ***A***

[1]

14 Yuri and Oliver are counting in a sequence.
Yuri counts forwards from 24 in steps of 5
Oliver counts backwards from 24 in steps of 5

Tick (✓) **all** the statements that are true.

An even number in the sequence always follows an odd number ☐

The first negative number Oliver says is –4 ☐

Yuri says the number 64 ☐

The first 3 digit number Yuri says is 100 ☐

Oliver says –121 ☐

[2]

15 Anastasia rolls a fair dice and records the outcomes.

She records numbers less than 4
She records odd numbers.

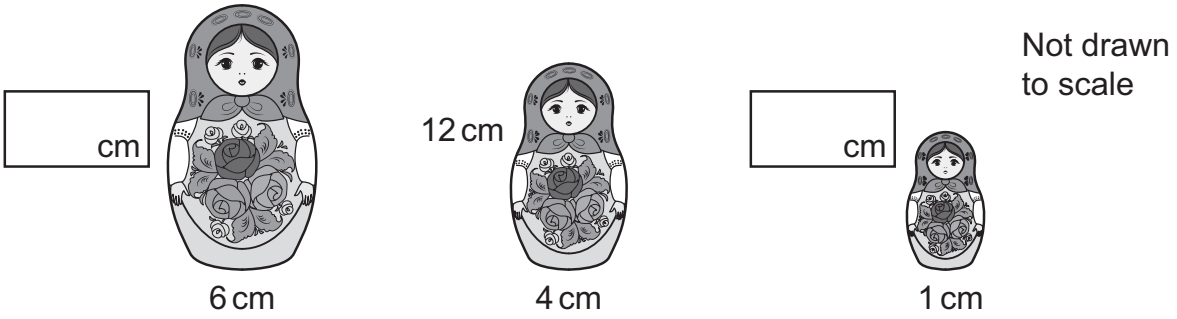
Explain why these outcomes are **not** mutually exclusive.

.....

..... [1]

16 Chen has a set of dolls.

The dolls are all in proportion to each other.



Write the missing measurements in the boxes.

[2]

17 Hassan bakes a cake.

The table shows he uses 120 grams of flour and 3 eggs when baking a cake for 15 people.

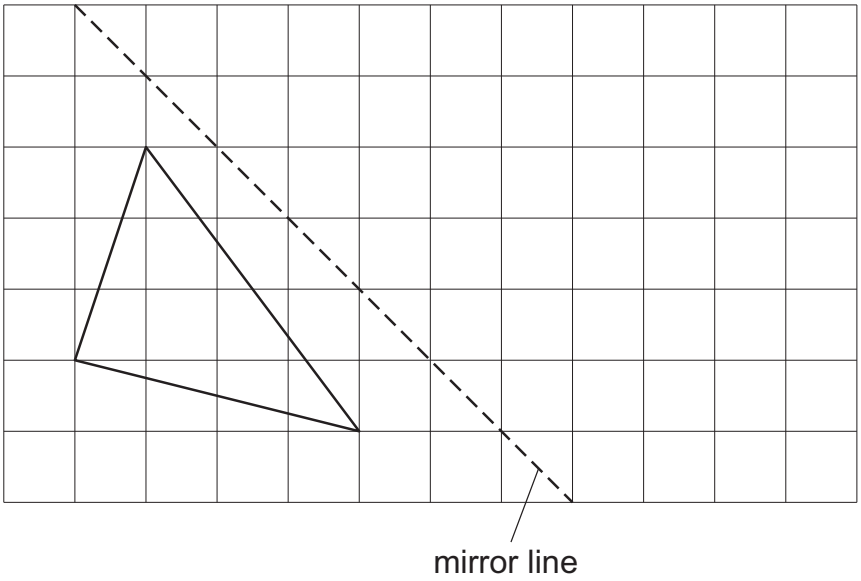
Complete the table for other sizes of cakes.

Flour (g)	Eggs	Number of people
120	3	15
	1	
240		

[2]

18 Here is a triangle drawn on a grid of squares.

Draw the reflection of the triangle in the mirror line.



[1]

19 Mia writes down the number of goals she scores each time she plays football.

Here are her results.

4 0 4 2 1 4 4 1

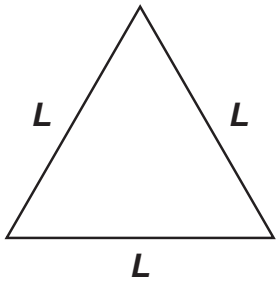
(a) Write down the mode.

..... [1]

(b) Work out the mean.

..... [1]

20 Here is a triangle with side length L cm.



The perimeter, P cm, can be written as

$$P = L + L + L$$

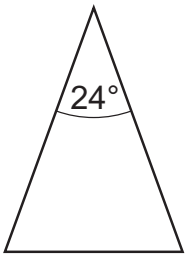
(a) Calculate the value of P when L is 12 cm.

$P =$ ..... cm [1]

(b) Calculate the value of L when P is 21 cm.

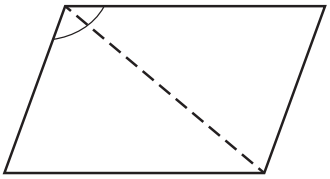
$L =$ ..... cm [1]

21 Chen has identical tiles in the shape of an isosceles triangle.



Not drawn to scale

He arranges two of the tiles to make this parallelogram.



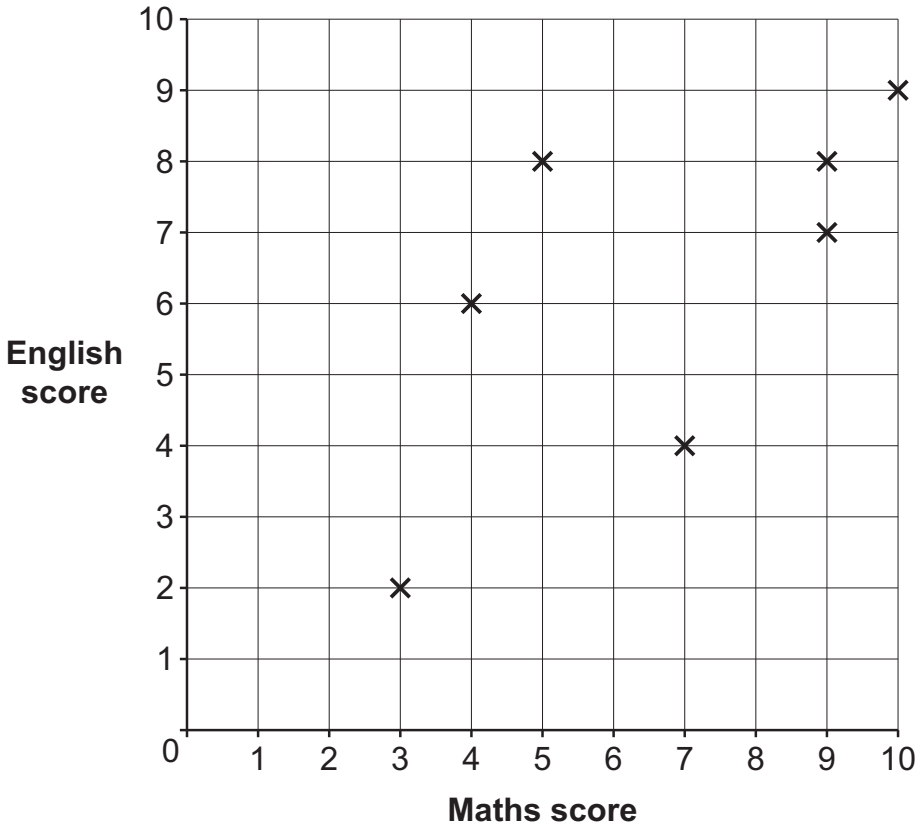
Not drawn to scale

Work out the size of the larger angle in the parallelogram.

Show your working.

..... ° [2]

22 The children in a class take a maths test and an English test.
The scores are shown in a scatter graph.



(a) Safia scores 8 in the maths test and 7 in the English test.

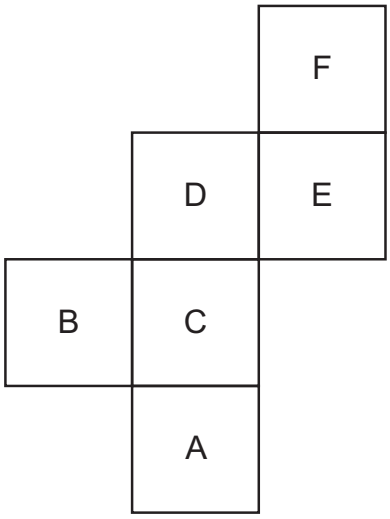
Show this on the scatter graph.

[1]

(b) What is the highest mark scored in English?

..... [1]

23 Here is a net of a closed cube.



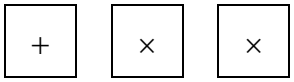
Jamila removes 1 square to give the net of an open cube.

Draw a ring around **each** square that Jamila could remove.

A **B** **C** **D** **E** **F**

[2]

24 **(a)** Here are three symbols.



Write down the correct symbols to make the statement true.

5 ☐ (4 ☐ 3 ☐ 2) = 50

[1]

(b) Insert **one** pair of brackets to make the calculation correct.

7 + 5 × 1 + 3 – 4 = 23

[1]

25 Pierre thinks of a square number.

He multiplies the square number by 4

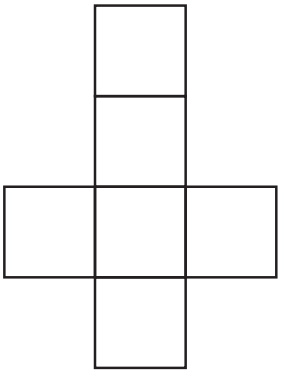
He gets a cube number.

Write down the square number.

..... [1]

26 Here is the net of a cube.

Not drawn to scale



The surface area of the cube is 486 cm^2.

What is the length of **one** edge of the cube?
Show your working.

..... cm [2]