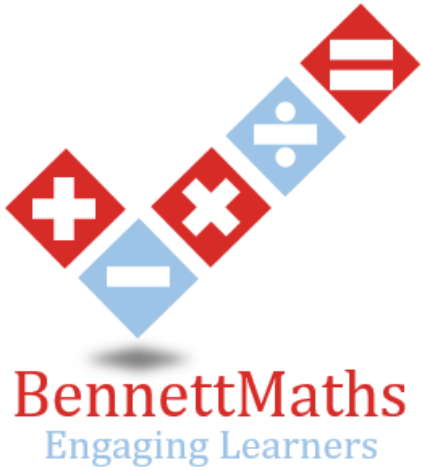
BennettMaths Practice Paper

Key stage 2

Mathematics

Paper 2: reasoning

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
School name						
DfE number						



Instructions

You **must not** use a calculator to answer any questions in this test.

Questions and answers

You have **40 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.
Do not write over any barcodes.

Some questions have a method box like this:

For these questions, you may get a mark for showing your method.

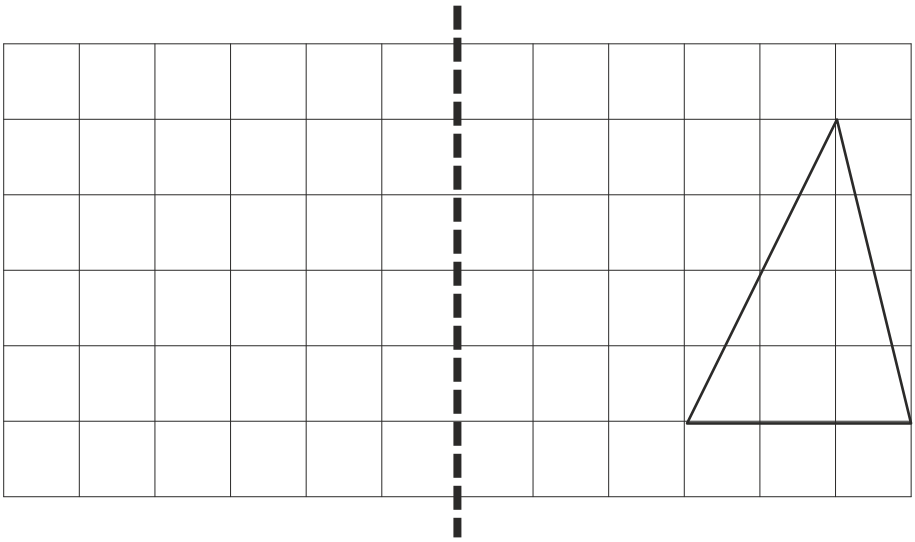
If you cannot do a question, **go on to the next one**.
You can come back to it later, if you have time.

If you finish before the end, **go back and check your work**.

Marks

The number under each line at the side of the page tells you the number of marks available for each question.

1 Here is a triangle on a grid.



Draw the reflection of the triangle in the mirror line.

Use a ruler.

1 mark

2 This table shows the cost of fruit at a supermarket.

Fruit	Cost for one
banana	18p
plum	26p
apple	32p
pear	34p

Leo buys two pieces of fruit.

He pays with a £2 coin.

He gets £1.50 change.

Tick the **two** pieces of fruit that Leo buys.

Tick **two**.

banana ☐

plum ☐

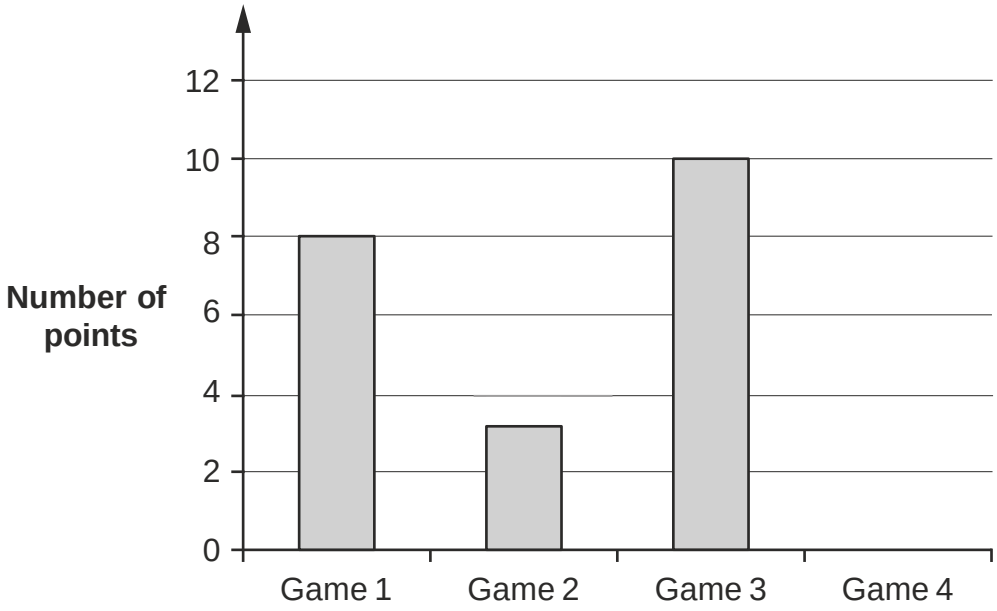
apple ☐

pear ☐

1 mark

3 Margot plays Badminton

This graph shows how many points she scored in her first 3 games.



1 mark

After 4 games, Layla had scored a total of 24 points.

Complete the graph.

Use a ruler.

4 The numbers in this sequence increase by the same amount each time.

Write the missing numbers.

–13		1	8		22

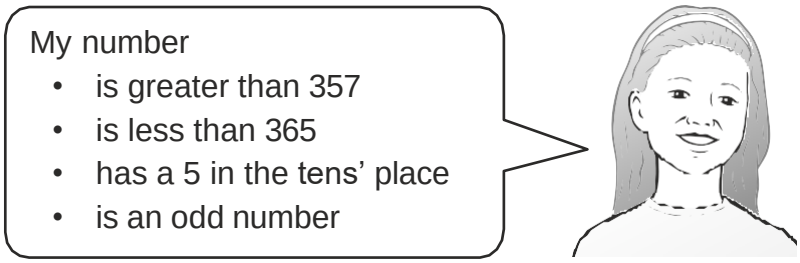
1 mark

5 Write the three missing digits to make this multiplication correct.

$$\square\,5\,\square \times 4 = 6\,\square\,2$$

1 mark

6 Sam is thinking of a number.



What number is Sam thinking of?

1 mark

7 A box holds 30 packets of envelopes.

Each packet holds 35 envelopes.

How many **envelopes** does the box hold?

1 mark

8 Write a **whole number** in each box to make the statements correct.

One has been done for you.

118 rounded to the nearest **ten** is 120

rounded to the nearest **thousand** is 3,000

rounded to the nearest **ten thousand** is 540,000

1 mark

9

$5 \div 100$	$50 \div 100$
$5 \div 10$	$50 \div 10$

Two of these calculations have the same answer.

Write this answer as a **decimal.**

1 mark

10 Circle the two **prime** numbers that have a difference of 2

7 9 11 13 15 17

1 mark

11 This table shows the number of children and adults at a childcare centre.

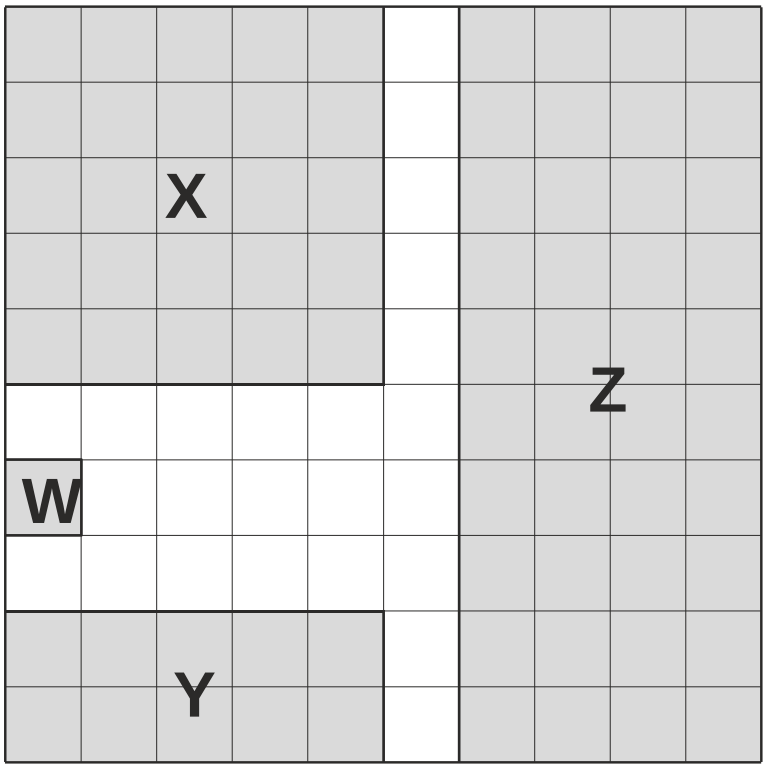
Complete the table to make it correct.

The first row has been done for you.

Age in years	Number of children	Number of adults	Number of children per adult
1 and under	18	6	3
2 or 3	24		4
4 or 5		7	8

1 mark

12 Shapes **W, X, Y** and **Z** cover different fractions of this 10 by 10 square.



Match each shape to the correct fraction.

Shape **W**	$\frac{10}{1000}$
Shape **X**	$\frac{2}{8}$
Shape **Y**	$\frac{6}{15}$
Shape **Z**	$\frac{2}{20}$

1 mark

13 Match the name of each 3-D shape to its number of edges.

cube	8
square-based pyramid	12
triangular-based prism	16
octagonal-based pyramid	6

1 mark

14 A class votes for a captain.

Four-fifths of the class vote for Leo.

The remaining 6 pupils vote for Margot.

How many pupils are in the class?

1 mark

15 Write the missing number to make this **multiplication** correct.

$$6.419 \times 100 = \square \times 10$$

1 mark

16 Here is a number.

7,658,314

Tick the statements that are **true**.

- The digit 8 represents 8,000 ☐
- The value of the digit 7 is seventy thousands. ☐
- The digit 6 represents 6 millions. ☐
- The value of the digit 3 is thirty tens. ☐

2 marks

17 Leo buys these four items.

Apples	Bread	Butter	Cereal
540 grams £1.50	800 grams £1.40	500 grams	600 grams £1.35

Chen pays for the four items with a £10 note. The price of the butter is not shown.

She receives £3.85 change.

What is the price of the **butter**?

Show your method

£

2 marks

18 Draw an arrow (↑) on the scale below to show **1650 millilitres**.

1 mark

19 A hall has 2,250 seats.

At 6 pm, 950 seats are filled.

At 7 pm, there are 30 empty seats.

How many seats were filled between 6 pm and 7 pm?

Show your method

seats

2 marks

20 Each day, a school has

- break from 10:20 am to 10:35 am
- lunchtime from 12:45 pm to 1:35 pm.

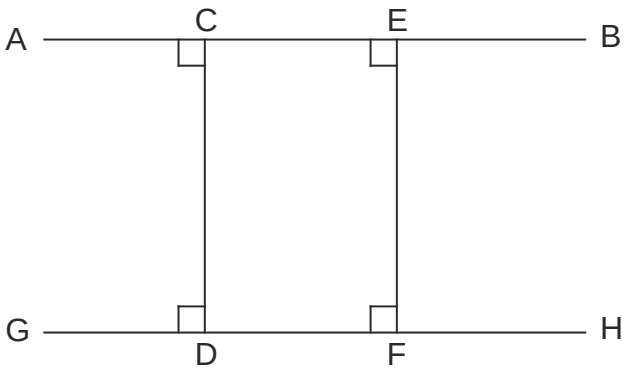
What is the **total** time the school has for breaks and lunchtime in a 5-day week?

Show your method

hours **minutes**

2 marks

21



Tick **all** the correct statements.

AC is parallel to EF ☐

GF is parallel to AB ☐

DC is perpendicular to GH ☐

FE is perpendicular to CD ☐

1 mark

22 This table shows the distance that five friends travel to school each day.

Name	Distance (km)
Leo	2.1
Margot	2.3
Sam	3.6
Maggie	1.1
Pixie	4.4

What is the **mean** distance they travel to school each day?

Show your method

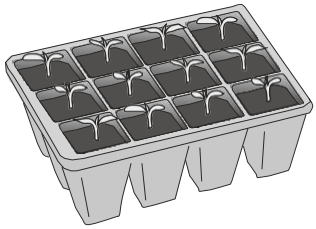
km

2 marks

23 Mr Bennett has **950** seeds to plant into trays.

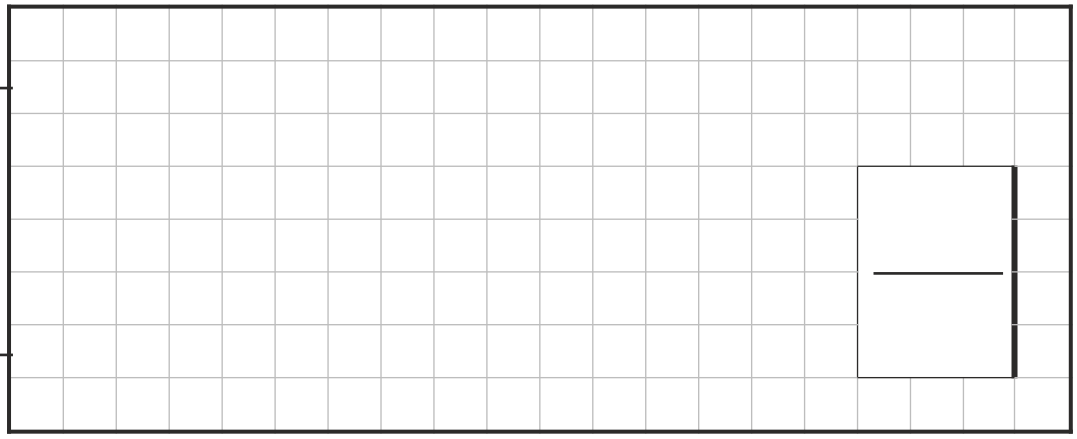
He plants **8** seeds in each tray.

The last tray is not full.



What **fraction** of the last tray is filled?

Show your method



2 marks

24 Here are four numbers.

48 60 81 125

Use each number **once** to complete these statements.

☐ is a cube number.

☐ is a square number.

☐ is a common multiple of **6** and **8**

☐ is a common factor of **60** and **120**

2 marks

25 Write the missing numbers so that $2 \times b - a = 3$

a	b
	4
13	

2 marks

26 Here are 3 translations on a coordinate grid.

Tick the translations that are **four units to the left**.

from (8, 1) to (4, 1) ☐

from (8, 8) to (4, 8) ☐

from (–3, -1) to (–6, –5) ☐

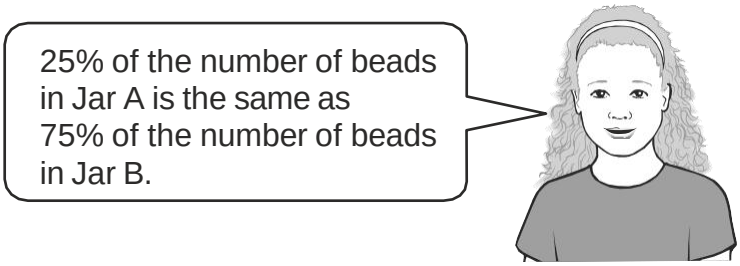
1 mark

27 Olivia has two jars of beads.

The number of beads in Jar A is **triple** the number of beads in Jar B.

Jar A **Jar B**

Margot says,



Explain why Olivia is correct.

1 mark