Cambridge Primary Checkpoint

CANDIDATE
NAME

CENTRE
NUMBER

CANDIDATE
NUMBER

MATHEMATICS   **0845/02**

Paper 2   **October 2016**

                                                             45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen   Protractor
                          Pencil   Calculator
                          Ruler   Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.
Calculator allowed.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

This document consists of **16** printed pages.

IB16 10_0845_02/4RP
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CAMBRIDGE
International Examinations

[Turn over

1 Complete the calculations.

(a) Double 37 = ☐

[1]

(b) ☐ = Half of 96

[1]

2 Abdul asked some children to choose their favourite fruit.

Fruit	Number
Bananas	○○◖
Oranges	○○○○
Peaches	
Apples	○○

○ equals 10 children

(a) How many children chose apples?

.... children   [1]

(b) 15 children chose peaches.
Show this on the chart.   [1]
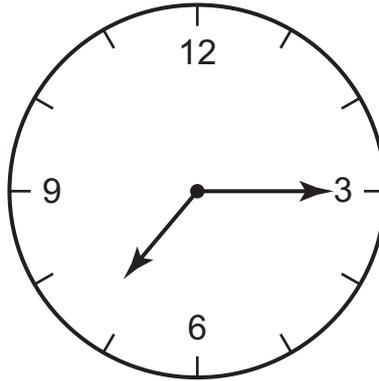
3 Write a whole number that lies between 1289 and 1293

1289, ... ,1293   [1]

4 There are 365 days in a year.

Students attend school on 186 days.

How many days do they **not** attend school?

....days   [1]

5 The clock shows the time when Aysha leaves for school in the morning.

(a) It takes her 35 minutes to walk to school.

What time does she arrive at school?

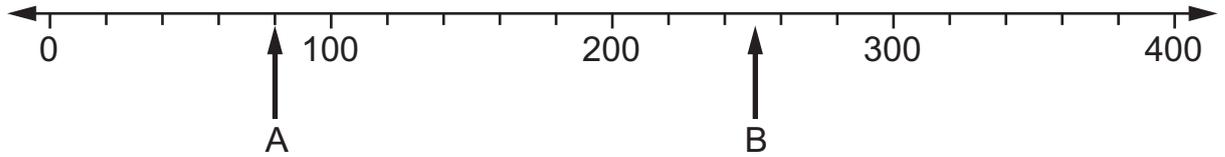..am   [1]

(b) The bell rings for lunch at 12:30 pm.

Aysha has 45 minutes for lunch.

What time does lunch **finish**?

.... [1]

6 **(a)** Write down the number that each arrow points to.

```
◄───┬───┬───┬───┬───┬───┬───┬───┬───┬───►
    0       100     200     300     400
                ↑A              ↑B
```

A = ... B = ... [1]

(b) Estimate where the number 350 lies on this scale.

Mark the position with an arrow (↓).

```
◄─┬───────┬───────┬───────┬───────┬─►
  0                                1000
```
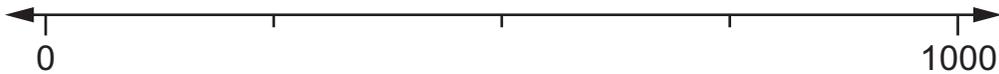
[1]

7 Draw a ring around the value of the digit **two** in this number.

543.27

2 hundredths   2 tenths   2 tens   2 hundreds

[1]

8 This shape is made from 5 straight lines.
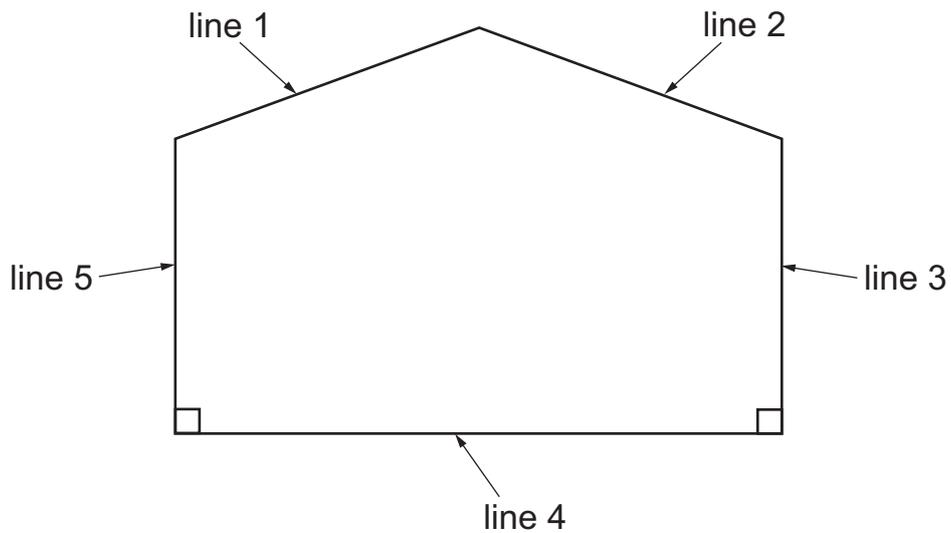
Complete these statements.

The first has been done for you.

Line 1 is equal in length to line ......2...... .

Line .... and line .... are parallel.

Line 5 is perpendicular to line ....

[1]

9 Write the missing numbers.

(a) 13 × 100 = 130 × ☐ [1]

(b) 260 ÷ ☐ = 2600 ÷ 100 [1]

10 Complete this calculation.

$$6 \times 124 = 3 \times \boxed{} \times 124$$

[1]

11 Here is a drawing of an open top cube.
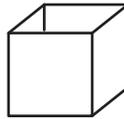
Here is the net from which it is made.
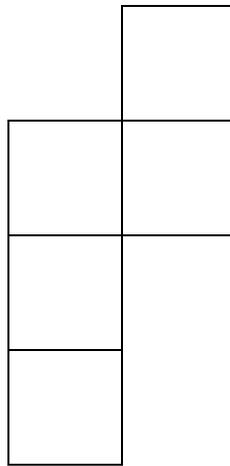
Put a tick (✓) on the square which is its base. [1]

12 Here is a maze.
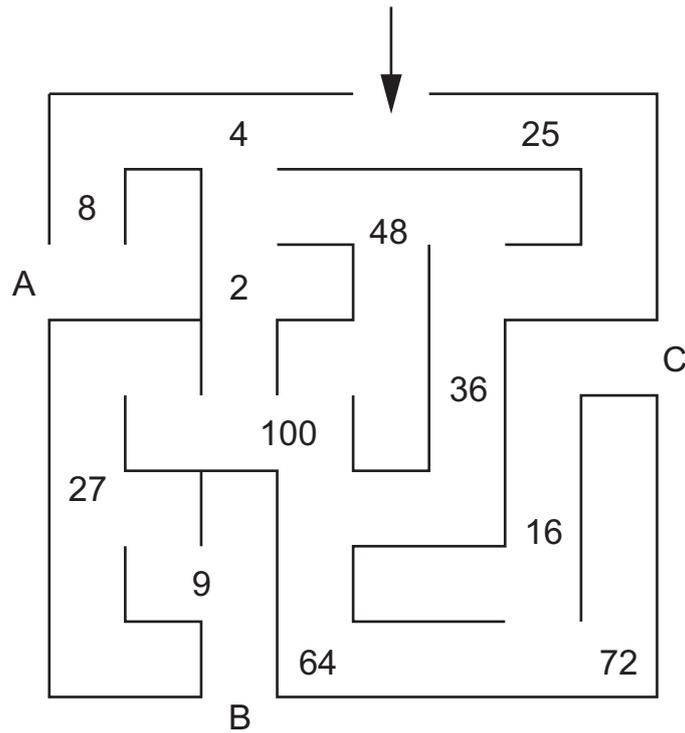
Start from the arrow (↓).

Draw a path through the maze that only passes square numbers.

[1]

13 Here are three digit cards.

| 2 | | 4 | | 5 |

Place each digit card in a box so that the answer to the calculation is a **1-digit** whole number.

☐.☐ × ☐ =

[1]

14 Draw a ring around all the **prime** numbers.

<div align="center">

4   7   9   11   14   19   20

</div>

[1]

15 Complete this calculation.

$$
\begin{array}{r}
5\;\square\,.\,4 \\
+\;\;\square\,3\,.\,\square \\
\hline
1\;2\;3\,.\,2 \\
\hline
\end{array}
$$

[2]

16 Match each fraction to the equivalent decimal.

The first one has been done for you.

0.2

$\dfrac{1}{2}$

0.75

$\dfrac{3}{4}$

0.3

$\dfrac{2}{5}$

0.4

$\dfrac{3}{10}$

0.5
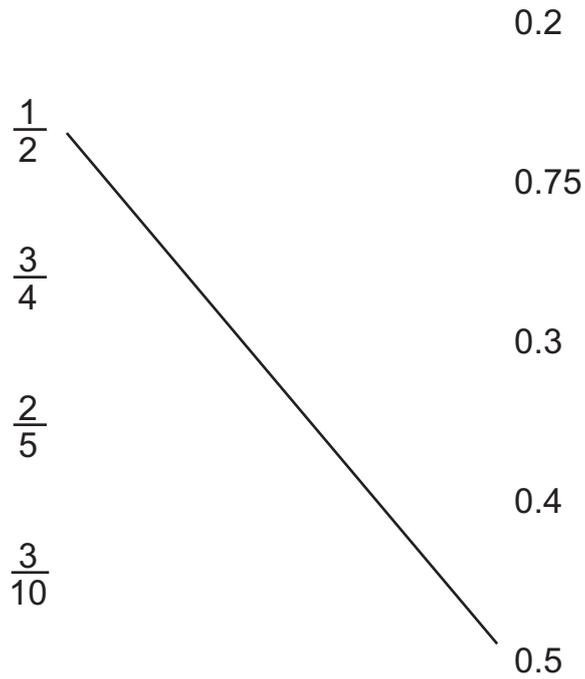
[1]

17 Here is a shape drawn on a co-ordinate grid.
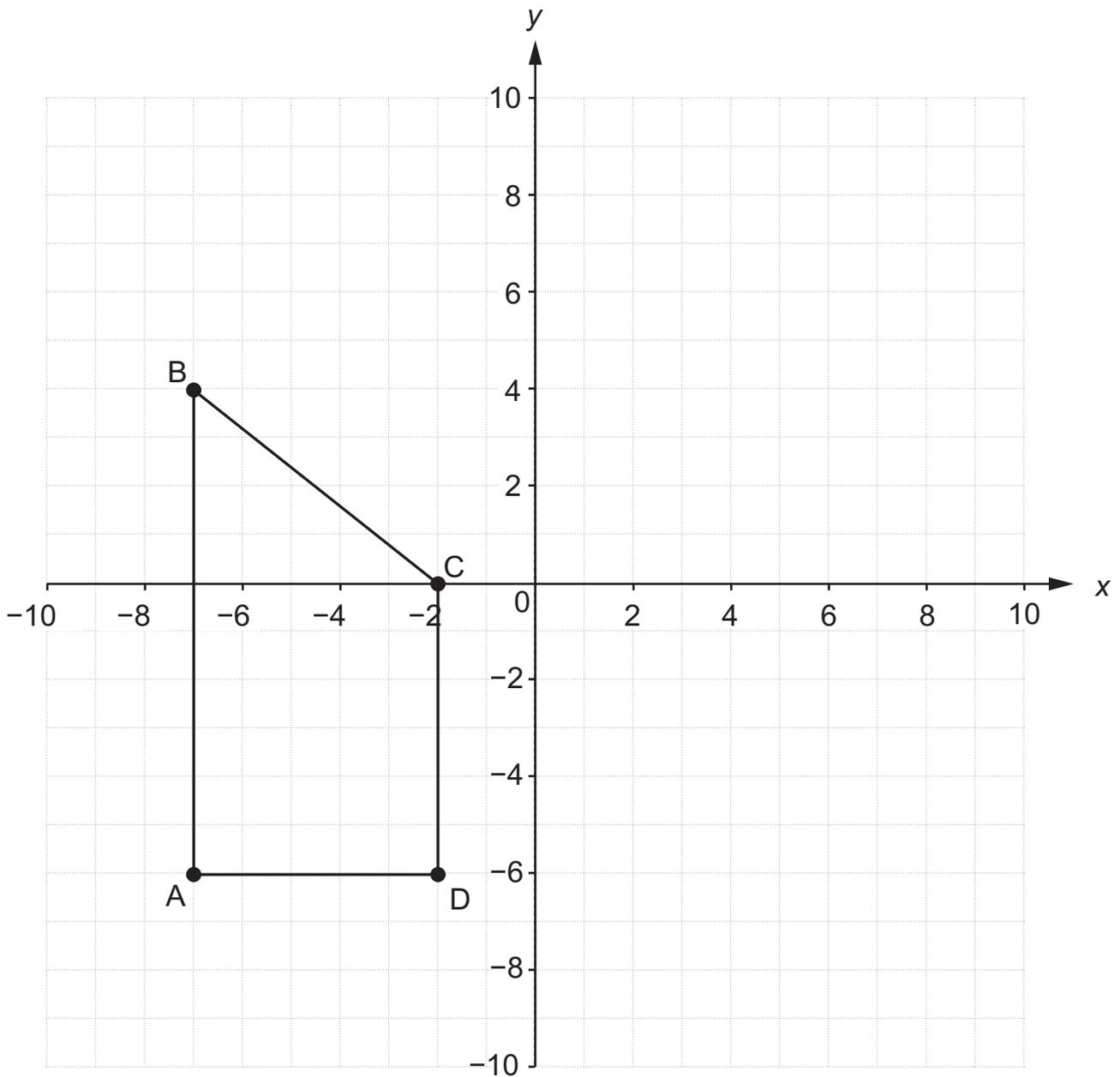
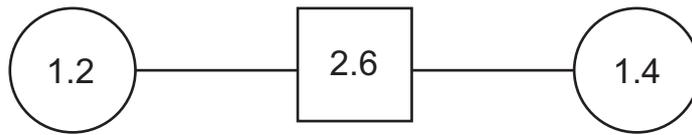**(a)** What are the co-ordinates of point A?

(............ , ...) [1]
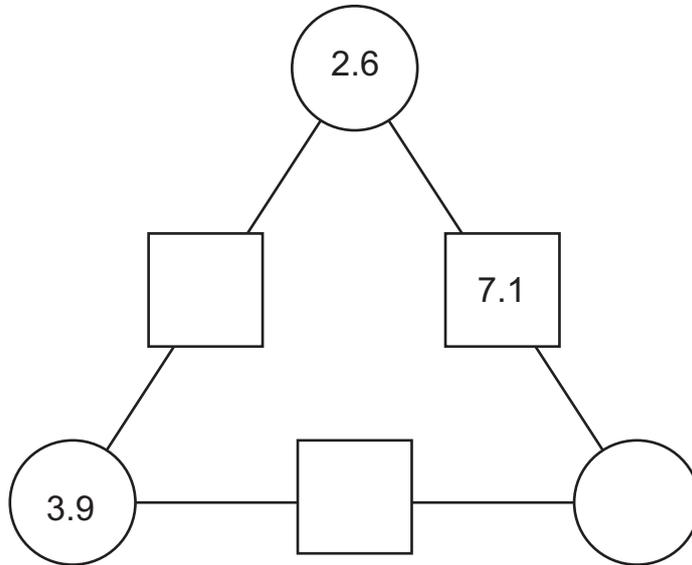
(b) The shape is translated 3 squares right and 5 squares up.

Draw the new position of the shape on the grid. [1]

18 In the diagram the sum of the numbers in the circles is written in the square.

(1.2) ── [2.6] ── (1.4)

Use the same rule to complete this diagram.

[1]

19 Here is a number sequence.
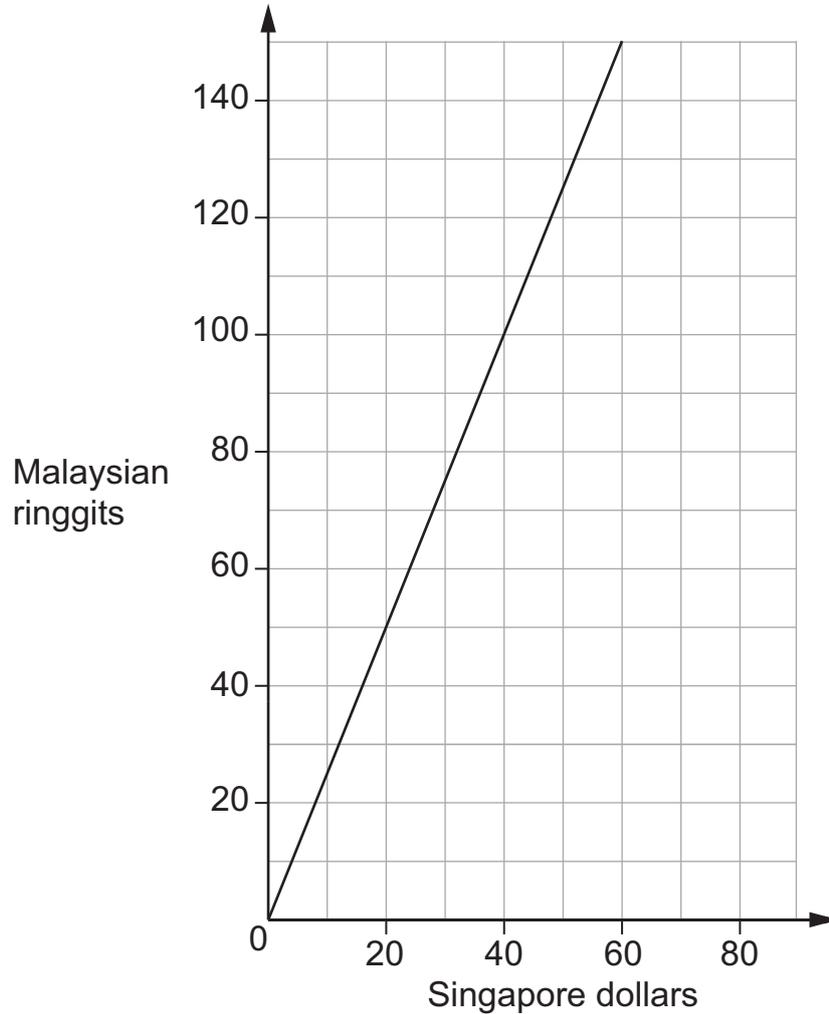
It continues in the same way.

Write in the missing numbers.

☐, ☐, 0.8, 1.3, 1.8, ☐
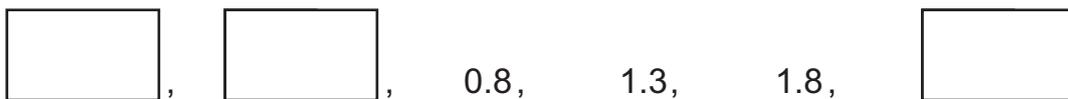
[1]

20 The currency in Malaysia is ringgits.
The currency in Singapore is dollars.

The graph shows how many ringgits you get for different numbers of dollars.

(a) How many ringgits do you get for 30 dollars?

.... ringgits   [1]

(b) How many dollars do you get for 250 ringgits?

.... dollars   [1]

21 Two ice creams and a chocolate bar cost $2.60

One ice cream costs 78 cents.

What does a chocolate bar cost?
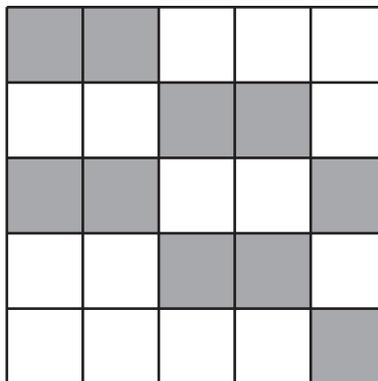
$ .... [1]

22 Harry enters a long jump competition.

His jump is given to 3 decimal places and lies between 4.17 m and 4.18 m.

Write a possible length of Harry's jump to 3 decimal places.

...................................m [1]

23 What **percentage** of the shape is shaded?

...................................% [1]

24 Paul says that $\frac{1}{3}$ is equivalent to 30%.

Is he correct?

Yes ☐   No ☐

Explain how you know.

[1]

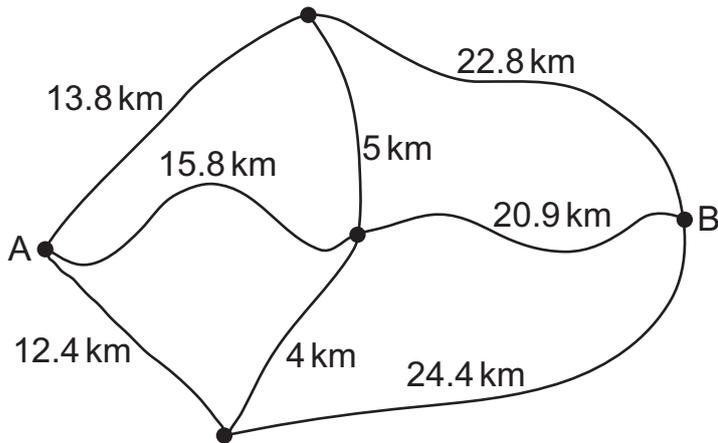**25** ☐ and ◯ are different 2-digit numbers that are multiples of 10

$$\boxed{} \times \bigcirc = 5400$$

What could the values of ☐ and ◯ be?

☐ = ...   ◯ = ... [1]

26 A and B are two towns.

13.8 km
15.8 km
22.8 km
5 km
20.9 km
B
A
12.4 km
4 km
24.4 km

Not drawn to scale

(a) What is the length of the **shortest** route between the two towns?

.....................................km   [1]

(b) Two different towns are 36 **kilometres** apart.

Write this distance in **miles**.

8 kilometres is approximately 5 miles

.................................miles   [1]

27 Look at the two shapes.

Put a tick (✓) in the shape that has the larger perimeter.

5 cm

Not drawn to scale

6 cm

7 cm

4 cm

10 cm

10 cm
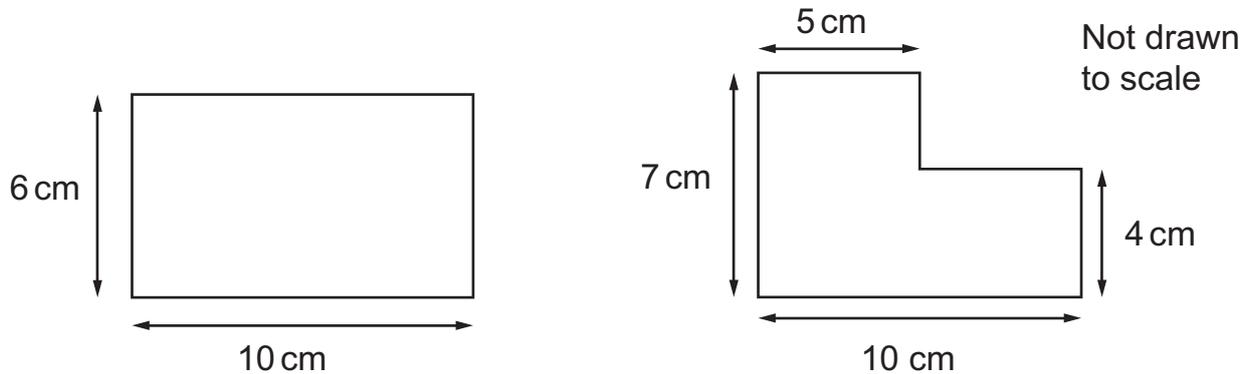
Show calculations to explain your answer.

....

.... [2]

28 Draw lines to join the mixed numbers to the correct positions on the number line.

$5\frac{1}{4}$ $6\frac{7}{8}$

5   6   7
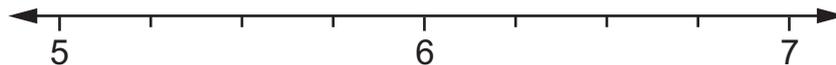
[1]

29 Sean has a collection of **less than 50** books.

He counts his books in fours and has one left over.

He counts his books in fives and has three left over.

How many books could Sean have?

.... books   [1]

30 Here is a triangle on a grid.
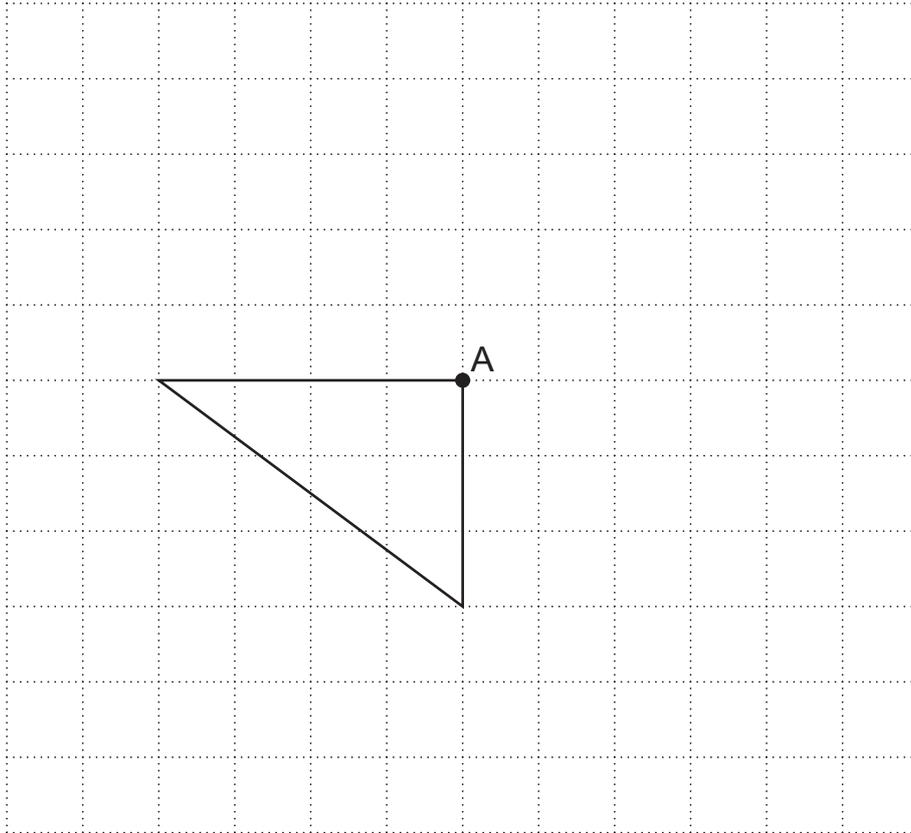
It is rotated about point A through 90º clockwise.

Draw the new position of the triangle on the grid. [1]