

DO NOT WRITE IN THIS AREA

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Answer ALL TWENTY FIVE questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 (a) Write a number in each box so that each calculation is correct.

(i) + 357 = 486

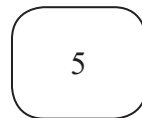
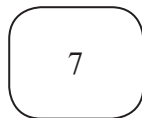
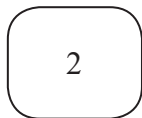
(ii) × 23 = 1840

(2)

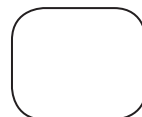
Here are four cards.

Each card has a number on it.

The four cards are arranged to make the number 2745



(b) (i) Show how the cards can be arranged to make the smallest number using all four cards.



(ii) Show how the cards can be arranged to make an even number using all four cards.



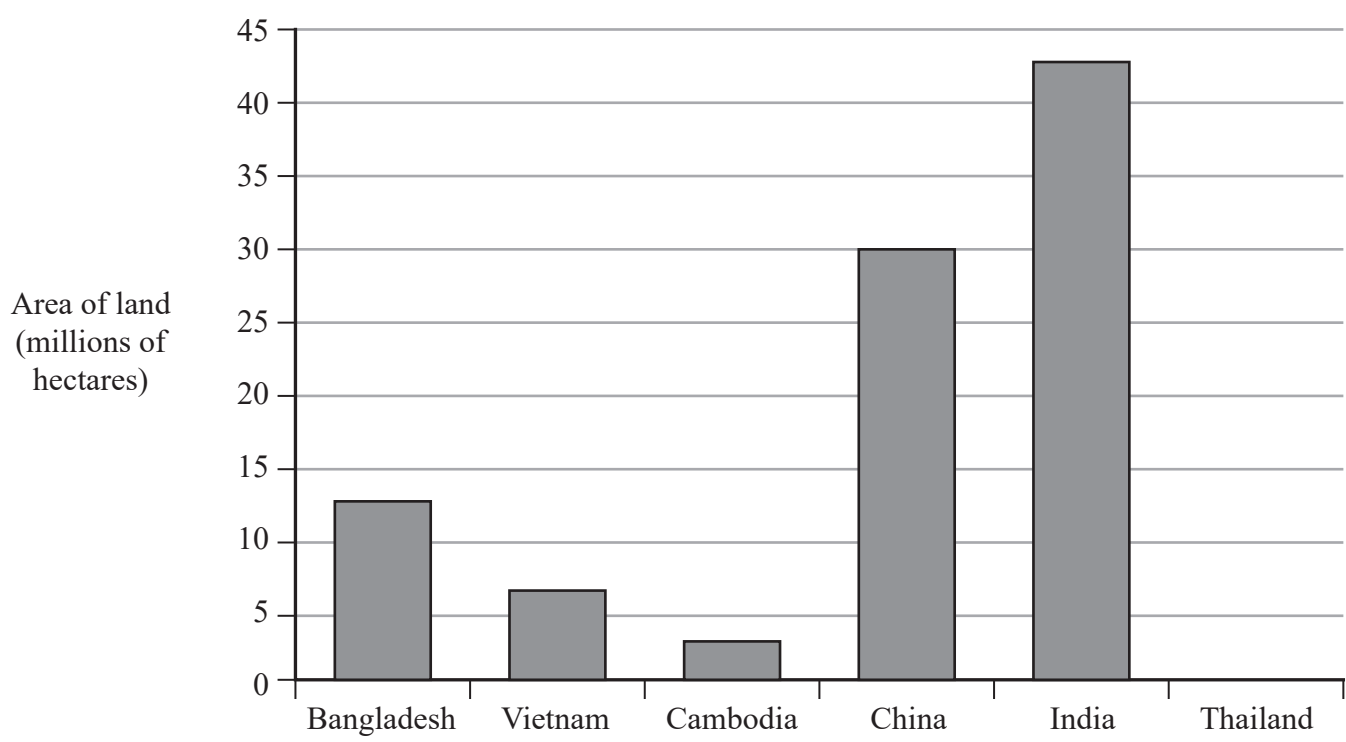
(2)

(Total for Question 1 is 4 marks)



P 6 0 2 5 9 A 0 3 2 4

2 The bar chart gives information about the area, in millions of hectares, of the land used in five countries to grow rice.



(a) In which of these five countries are 7 million hectares of land used to grow rice?
.....
(1)

(b) How many millions of hectares of land are used to grow rice in China?
..... millions of hectares
(1)

In Thailand 10 million hectares of land are used to grow rice.

(c) Draw a bar on the bar chart to show this information.
(1)

More land is used to grow rice in India than in Cambodia.

(d) How many millions of hectares more?
Show your working clearly.
..... millions of hectares
(2)

(Total for Question 2 is 5 marks)



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- 3 (a) Write 0.72 as a fraction.
Give your fraction in its simplest form.

.....
(2)

- (b) Write $\frac{3}{4}$ as a percentage.

.....%
(1)

- (c) Work out 65% of 720

.....
(2)

- (d) Write these numbers in order of size.
Start with the smallest number.

0.43 $\frac{9}{20}$ 40.5% $\frac{4}{9}$ 0.427

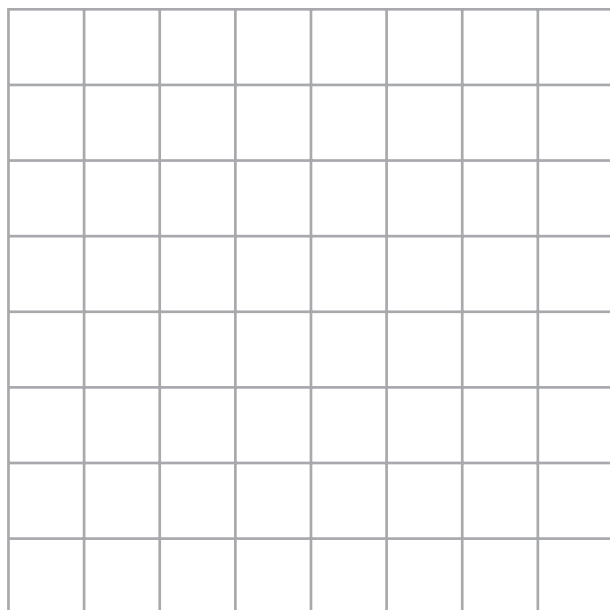
.....
(2)

(Total for Question 3 is 7 marks)



4 Here is a centimetre grid.

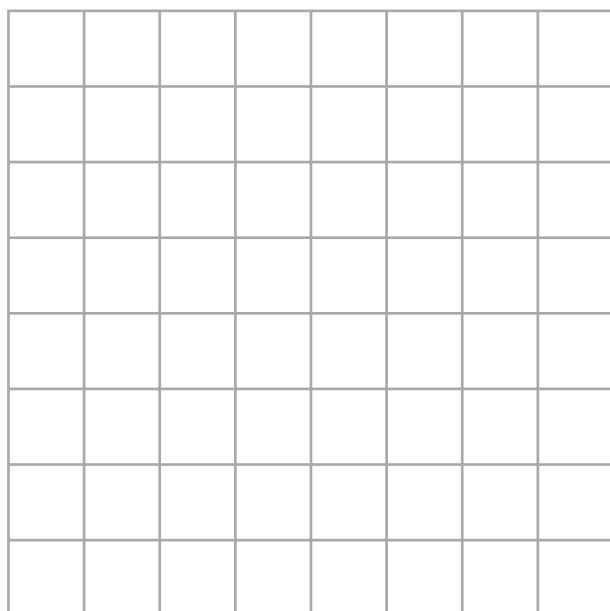
(a) On the grid, draw a rectangle with a perimeter of 14 cm.



(2)

Here is a centimetre grid.

(b) On the grid, draw a right-angled triangle with an area of 12 cm^2



(2)

(Total for Question 4 is 4 marks)



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5 The table shows the temperature in each of five Canadian cities one day in January.

City	Temperature
Vancouver	6 °C
Edmonton	-8 °C
Yellowknife	-23 °C
Quebec	-20 °C
Ottawa	-5 °C

(a) Work out the difference between the temperature in Vancouver and the temperature in Edmonton.

..... °C
(1)

The temperature in Yellowknife is lower than the temperature in Ottawa.

(b) How much lower?

..... °C
(1)

The temperature in Winnipeg was 8 °C greater than the temperature in Quebec.

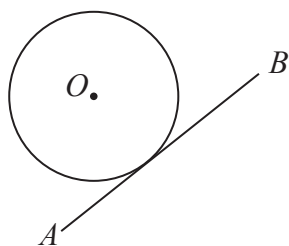
(c) Work out the temperature in Winnipeg.

..... °C
(1)

(Total for Question 5 is 3 marks)



6 (a) The diagram shows a circle with centre O .

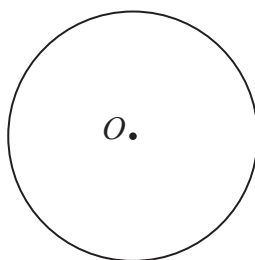


Write down the word from the box that describes the line AB .

- | | | | | |
|--------|---------|---------|-------|----------|
| sector | segment | tangent | chord | diameter |
|--------|---------|---------|-------|----------|

.....
(1)

(b) The diagram shows a circle with centre O .



On the diagram, draw a radius of the circle.

(1)

(c)

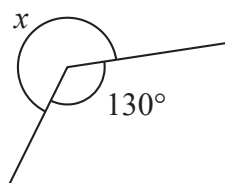


Diagram **NOT** accurately drawn

Work out the size of the angle marked x .

.....
(1)

(Total for Question 6 is 3 marks)



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7 Bella buys

4 packets of sandwiches at £2.40 each packet
a bottle of water for £1.20
and 3 packets of crisps.

Bella pays with a £20 note.
She gets £5.75 change.

Each packet of crisps has the same price.

Work out the price of each packet of crisps.

£

(Total for Question 7 is 3 marks)



8 (a) Simplify $a + a + a + a$

.....
(1)

(b) Simplify $3c \times 5c$

.....
(1)

(c) Simplify $3e + 7g + 5e - 4g$

.....
(2)

(d) Solve $x - 9 = 14$

$x =$
(1)

(e) Factorise $5y + 15$

.....
(1)

(f) Make y the subject of $H = 3y - w$

.....
(2)

(Total for Question 8 is 8 marks)

