Edexcel GCSE

Mathematics B – 1388

Paper 14 (Non-Calculator)

Foundation Tier

Tuesday 6 November 2007 – Morning

Time: 1 hour

Materials required for examination
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Items included with question papers
Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature.
Check that you have the correct question paper.
Answer ALL the questions. Write your answers in the spaces provided in this question paper.
You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit.
If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. **(2)**.
There are 19 questions in this question paper. The total mark for this paper is 62.
There are 16 pages in this question paper. Any blank pages are indicated.
Calculators must not be used.

Advice to Candidates

Show all stages in any calculations.
Work steadily through the paper. Do not spend too long on one question.
If you cannot answer a question, leave it and attempt the next one.
Return at the end to those you have left out.

Area of trapezium $= \frac{1}{2}(a+b)h$

H31117A0216
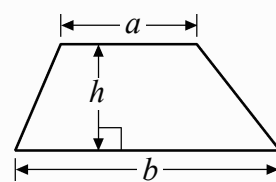
Answer ALL NINETEEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator.

1. (a) Write the number 5250 in words.

....
(1)

(b) Write 23 250 to the nearest thousand.

....
(1)

(c) Write down the value of the 3 in the number 42 350

....
(1)

(d) Write **six thousand three hundred and seventy four** in figures.

....
(1)   Q1

(Total 4 marks)

2. (a) Work out   500 – 107

....
(2)

(b) Work out   327 × 4

....
(2)   Q2

(Total 4 marks)

3. (a) Here is a triangle.
What type of triangle is it?
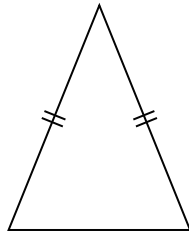
....
(1)

(b) Here is a quadrilateral.
What type of quadrilateral is it?
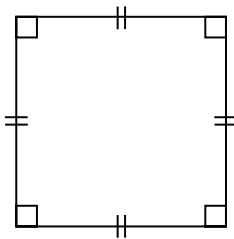
....
(1)

(c) On the grid below, draw a trapezium.

(1)
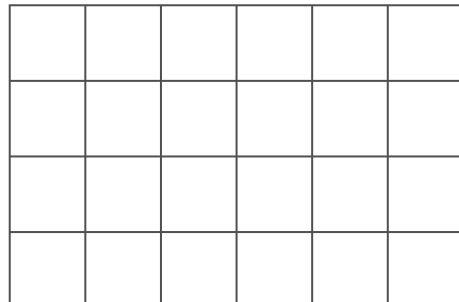
(Total 3 marks)

4. Jennie asked each of her friends to write down their favourite vegetable.

Here are her results.

Peas	Potatoes	Carrots	Parsnips	Onions
Carrots	Carrots	Parsnips	Peas	Peas
Onions	Potatoes	Onions	Peas	Carrots
Peas	Peas	Carrots	Onions	Parsnips

Complete the frequency table to show her results.

Favourite vegetable	Tally	Frequency
Peas	⊬⊬ |	6
Potatoes		
Carrots		
Parsnips		
Onions		

Q4

(Total 2 marks)

5. (a) Shade $\frac{3}{4}$ of this shape.
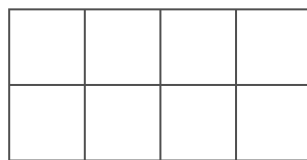
(1)

(b) Change 0.3 into a fraction.
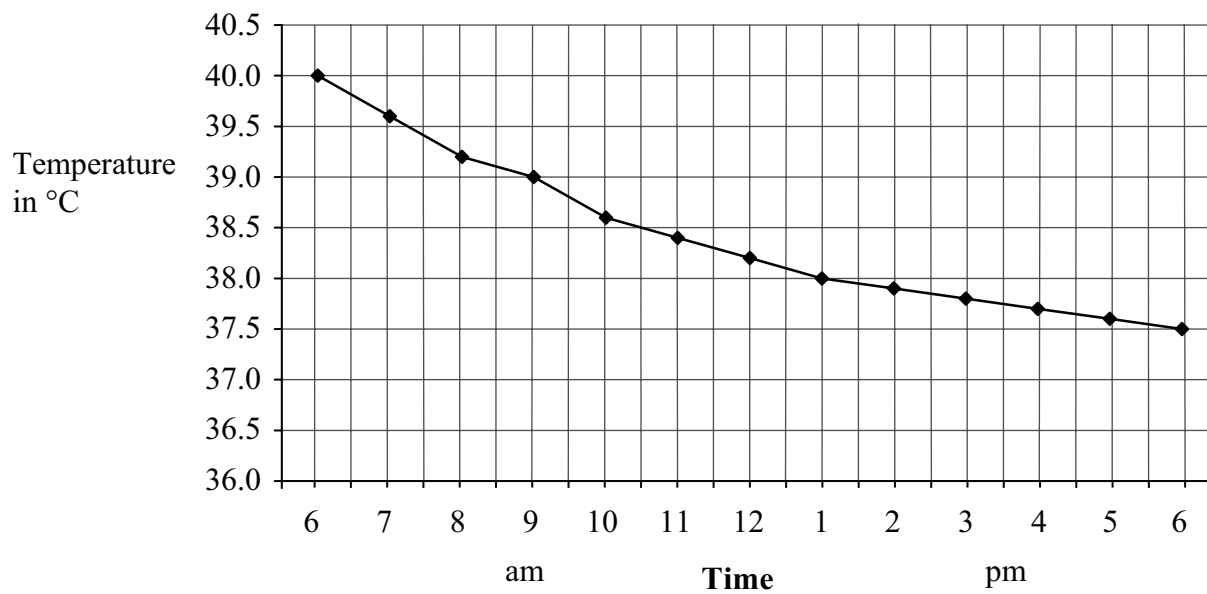
....

(1)

Q5

(Total 2 marks)

6. José is in hospital.
Here is his temperature chart during one day.

(a) At what time was José's temperature 39.0 °C?

....
(1)

(b) What can you say about José's temperature from 6 am to 6 pm?

....
(1)

(Total 2 marks)

Q6

7. Joe uses this formula to work out the cost of apples.

Cost, in pence = Number of apples × 30

Work out the cost of 8 apples.

....
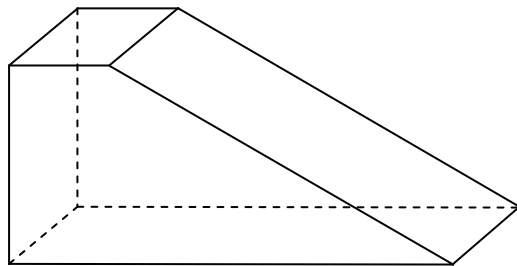**(Total 2 marks)**

Q7

8. Here is a diagram of a 3-D prism.

Write down the number of   (i)   faces, ...

(ii)   edges, ...

(iii)   vertices. **Q8**

(Total 3 marks)

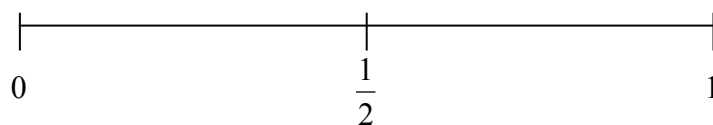**9.** (a) On the probability scale below, mark with a cross (×)
the probability that it will rain on at least one day in London in 2008.
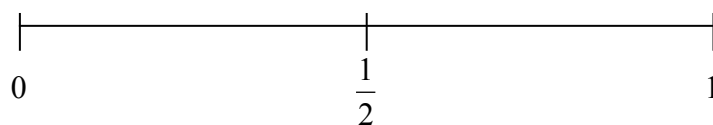
0          $\frac{1}{2}$ 1
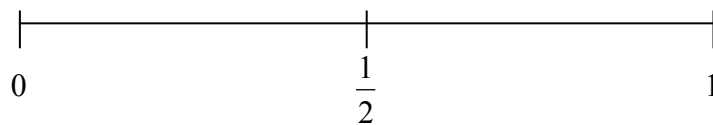
(1)

(b) On the probability scale below, mark with a cross (×)
the probability that you will get a 10 when you roll an ordinary 6-sided dice.

0          $\frac{1}{2}$ 1

(1)

(c) On the probability scale below, mark with a cross (×)
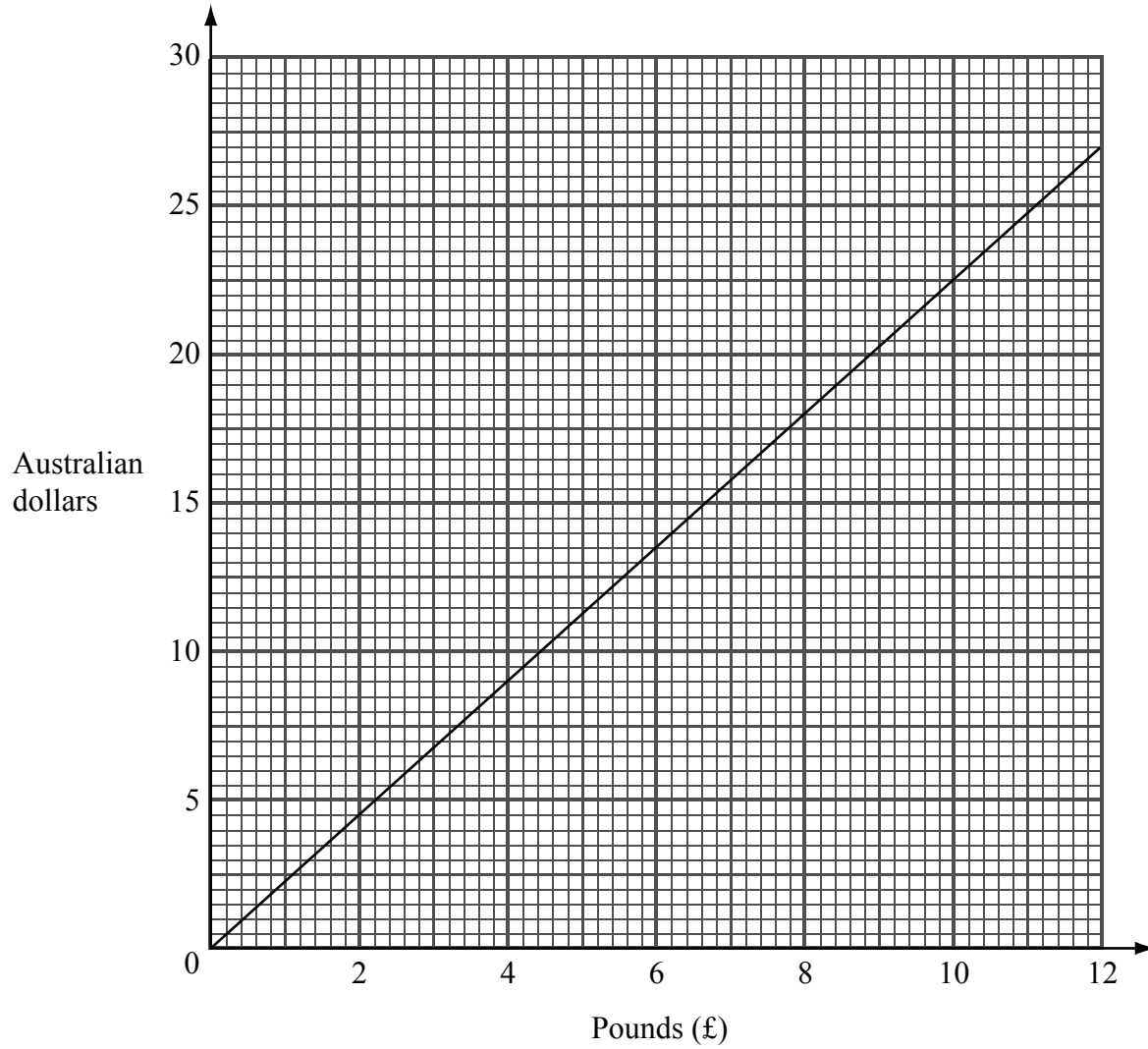the probability that you will get a head when you throw a coin.

0          $\frac{1}{2}$ 1

(1)   **Q9**

(Total 3 marks)

H 3 1 1 1 7 A 0 7 1 6

10. Here is a conversion graph between pounds (£) and Australian dollars.

Australian dollars (vertical axis)
Pounds (£) (horizontal axis)

(a) Change 20 Australian dollars to pounds.

£ ....
(1)

(b) Change £7 to Australian dollars.

.... Australian dollars
(1)

(Total 2 marks)

11. Work out the value of

(i) 4^2

....

(ii) $\sqrt{64}$

....

(iii) 3×2^3

....

(Total 3 marks)

12. Work out   £3.75 × 24

£ ....

(Total 3 marks)

13. The two-way table shows some information about the colours of Ford cars and of Toyota cars in a garage.

	white	blue	red	Total
Ford	5			21
Toyota		7		
Total	9	16		40

(a) Write down the total number of white cars.

....
(1)

(b) Complete the two-way table.

(3)

One of these 40 cars is to be picked at random.

(c) Work out the probability that this car will be blue.

....
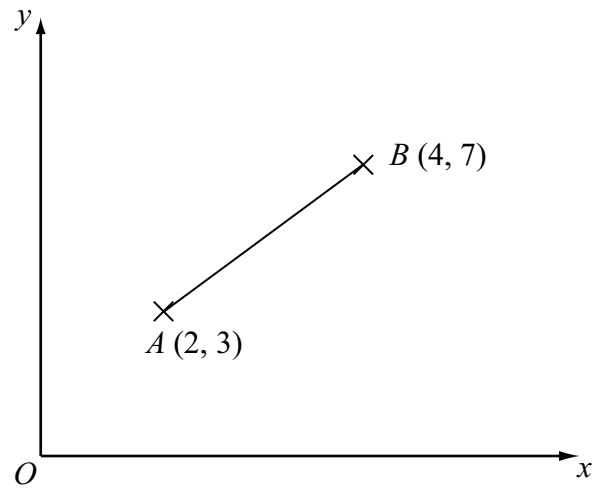**(1)**
(Total 5 marks)

14.

y

Diagram **NOT**
accurately drawn

$\times$ B (4, 7)

$\times$
A (2, 3)

O   x
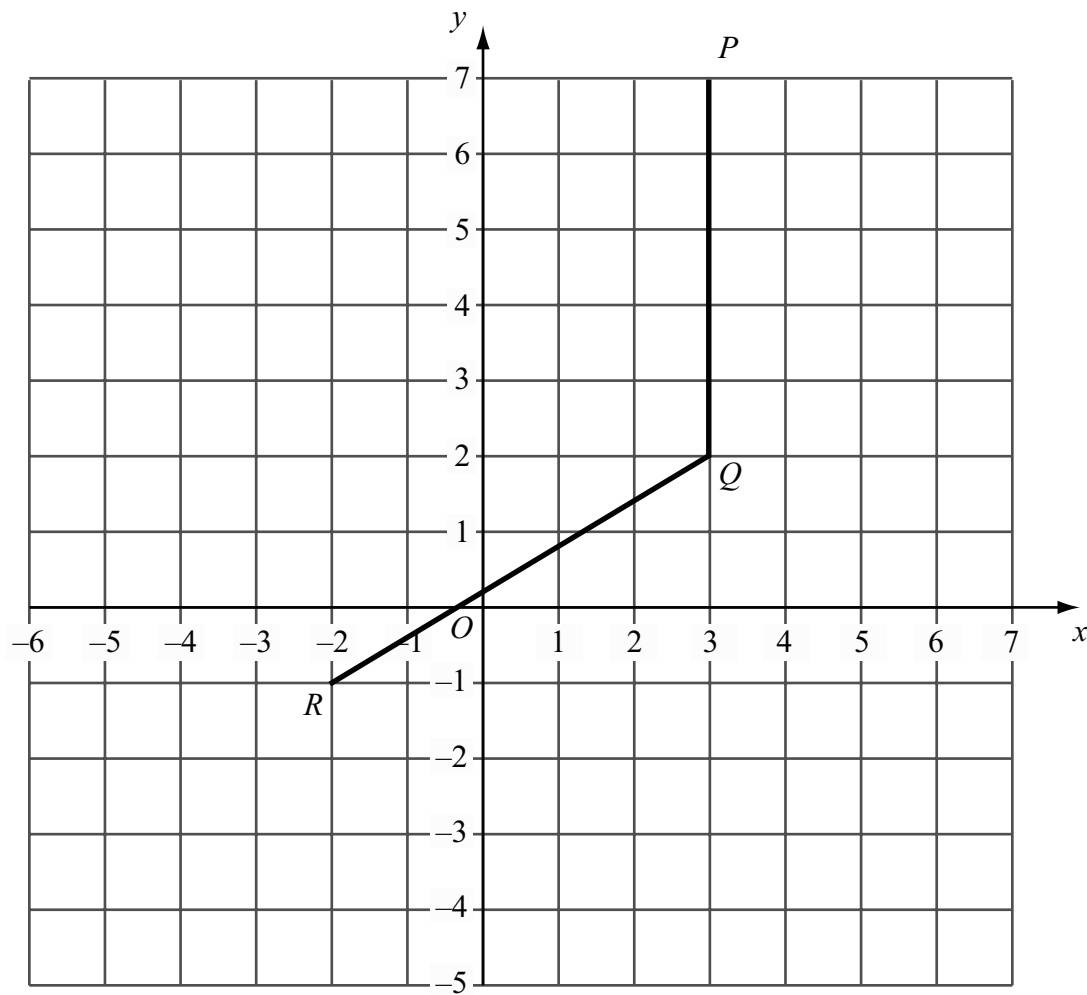
A is the point with coordinates (2, 3).
B is the point with coordinates (4, 7).

(a) Work out the coordinates of the midpoint of AB.

(............. , ...)
(2)

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P, *Q* and *R* are three vertices of a parallelogram.

(b) Write down the coordinates of the fourth vertex of this parallelogram.

(............. , ...)

(2)
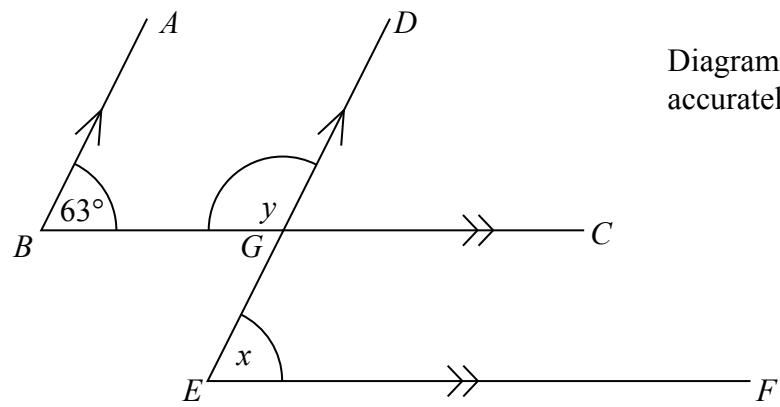
(Total 4 marks)

15.

A D

63° y
B G C

x
E F

Diagram **NOT** accurately drawn

BA is parallel to *EGD*.
BGC is parallel to *EF*.
Angle *ABC* = 63°.

(a) (i) Find the size of angle *x*.

....°

(ii) Give a reason for your answer.

....

....

(2)

(b) Work out the size of angle *y*.

....°

(1)

(Total 3 marks)

Q15

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16. (a) Complete this table of values for $y = 2x - 1$

x	-1	0	1	2	3	4
y		-1		3	5	

(2)
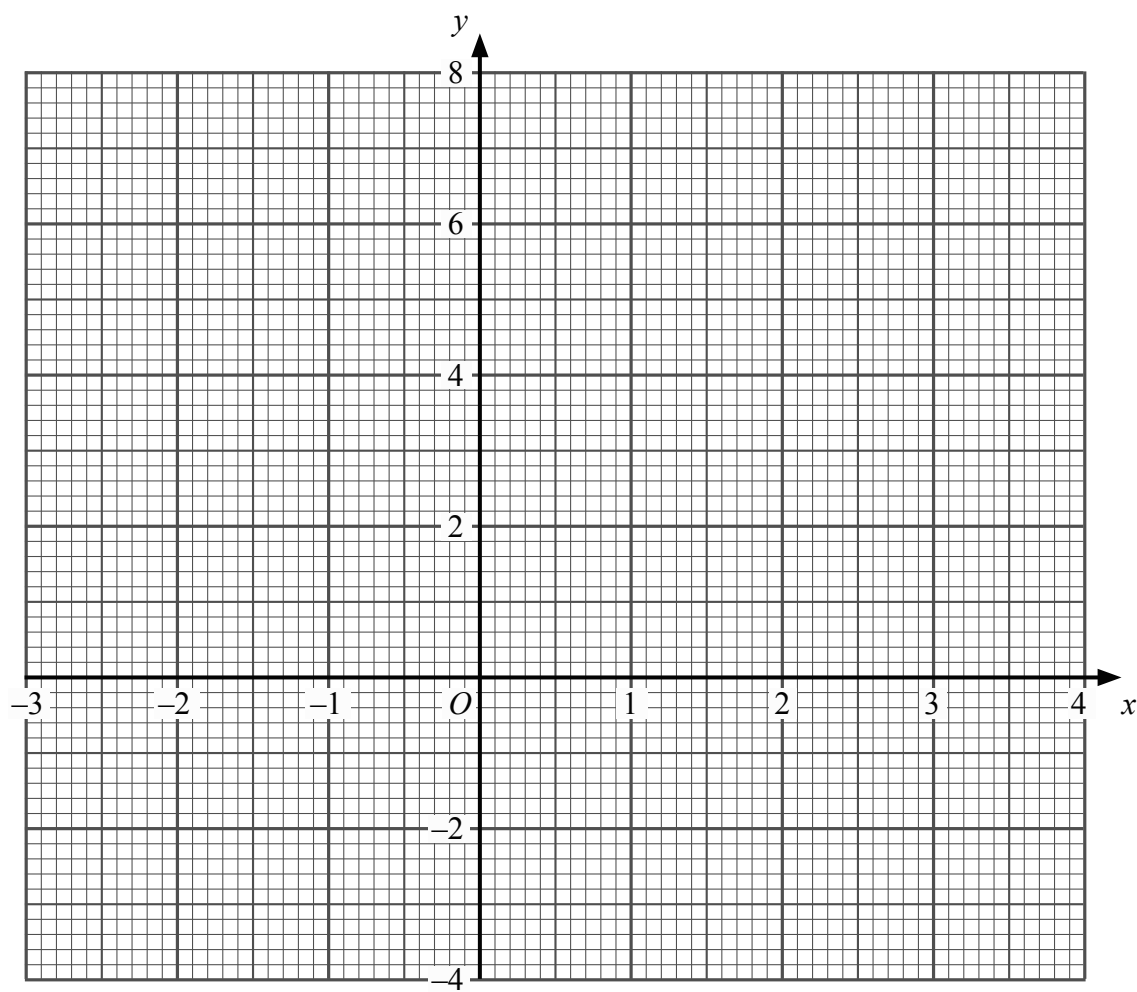
(b) On the grid, draw the graph of $y = 2x - 1$

(2)

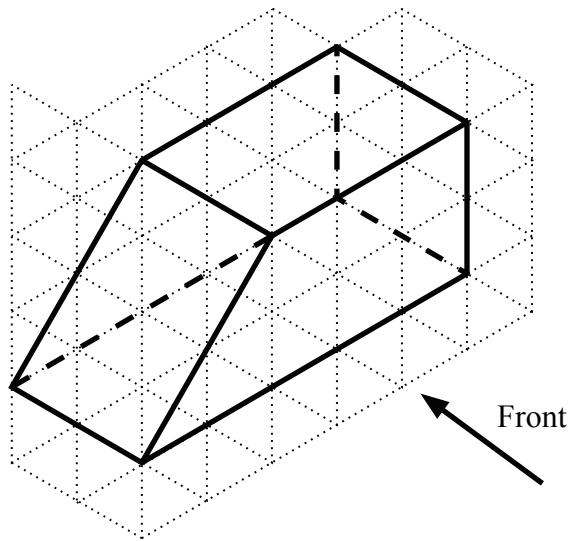(c) Use your graph to write down the value of x when $y = 4$

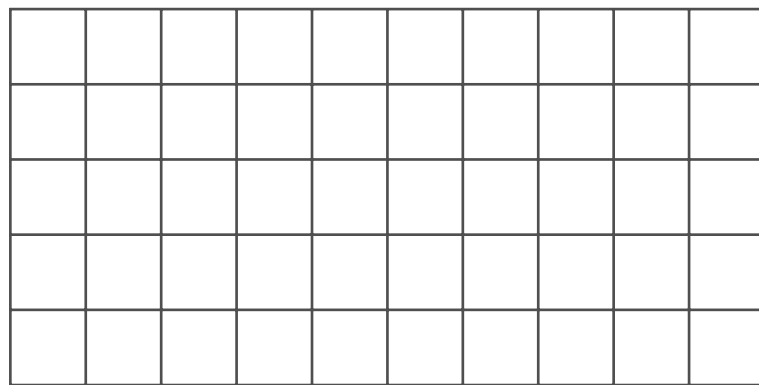.......................................

(1)

(Total 5 marks)

Q16

17. The diagram shows a prism drawn on a centimetre isometric grid.
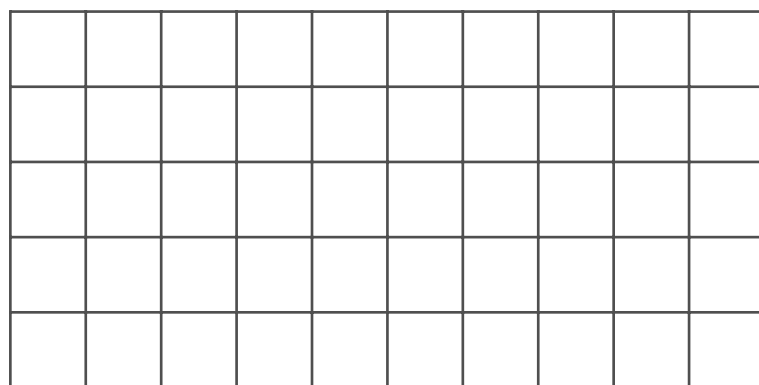

(a) On the centimetre grid, draw the front elevation of the prism from the direction marked by the arrow.

(2)

(b) On the centimetre grid draw a plan of the prism.

(2)

(Total 4 marks)

18. Factorise $x^2 - 5x$

....

(Total 2 marks)

19. A hotel has 56 guests.
35 of the guests are male.

(a) Work out 35 out of 56 as a percentage.

.... %

(2)

40% of the 35 male guests wear glasses.

(b) Write the number of male guests who wear glasses as a fraction of the 56 guests.
Give your answer in its simplest form.

....

(4)

(Total 6 marks)

TOTAL FOR PAPER: 62 MARKS

END

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