

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Time 1 hour 30 minutes

Paper
reference

1MA1/1F

Mathematics

PAPER 1 (Non-Calculator)

Foundation Tier

Mock set 7

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**



Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 Change 2.5 metres into centimetres.

..... centimetres

(Total for Question 1 is 1 mark)

- 2 Write 60% as a decimal.

.....

(Total for Question 2 is 1 mark)

- 3 Write the following numbers in order of size.
Start with the smallest number.

5 -3 4 2 -5

.....

(Total for Question 3 is 1 mark)

- 4 Work out $3 + 5 \times 2$

.....

(Total for Question 4 is 1 mark)

- 5 Solve $4p = 44$

$p =$

(Total for Question 5 is 1 mark)

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6 Here are the amounts of money earned each day by each of 9 workers.

£55 £70 £65 £60 £55 £55 £65 £70 £50

(a) Find the median.

£
(2)

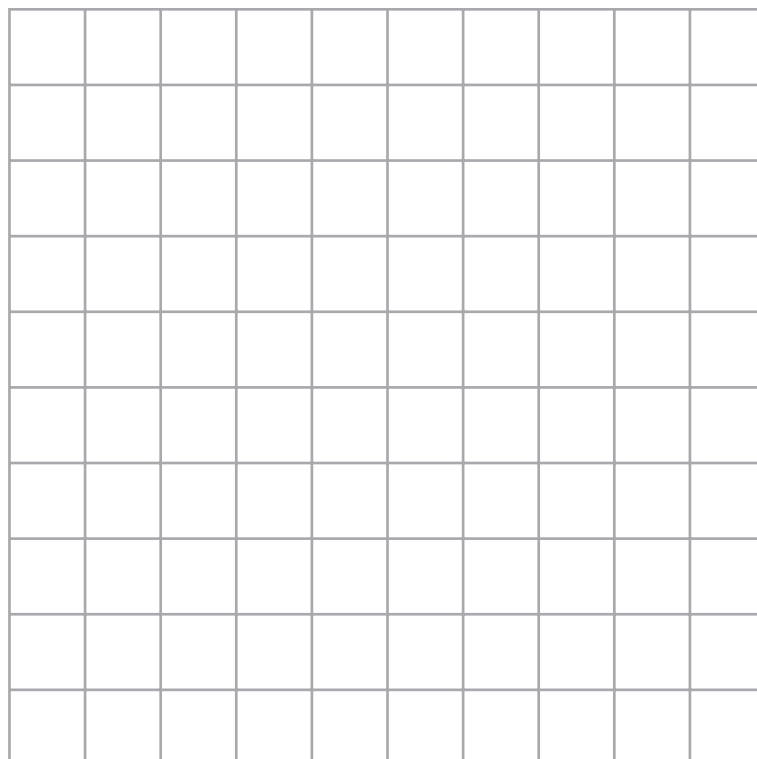
(b) Work out the range.

£
(1)

(Total for Question 6 is 3 marks)

7 The length of a rectangle is 2 cm greater than the width of the rectangle.
The perimeter of the rectangle is 24 cm.

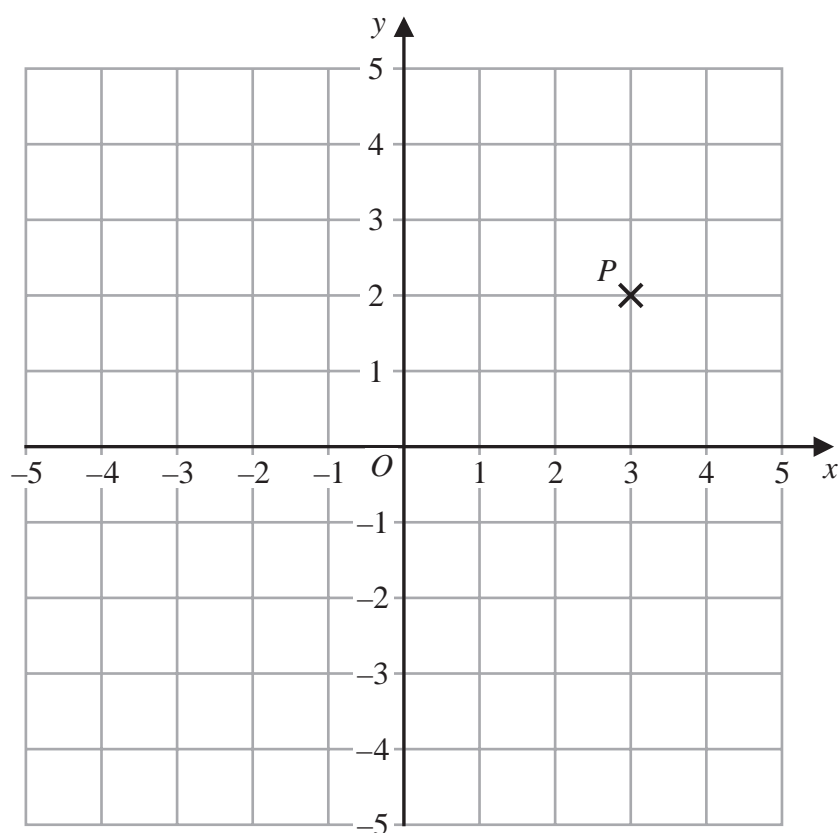
Draw the rectangle on the centimetre grid.



(Total for Question 7 is 2 marks)



8



- (a) Write down the coordinates of point P .

(.....,)
(1)

- (b) On the grid, mark with a cross (X) the point with coordinates $(-4, -1)$
Label this point T .

(1)

- (c) On the grid, draw the line with equation $y = 4$

(1)

(Total for Question 8 is 3 marks)



9 Here is a list of numbers.

4 7 15 16 22 30

From the list,

(i) write down a multiple of 8

.....
(1)

(ii) write down a factor of 66

.....
(1)

(iii) write down a prime number.

.....
(1)

(Total for Question 9 is 3 marks)

10 Jim has a dog.

Jim buys 6 bags of dog biscuits.

There are 27 biscuits in each bag of dog biscuits.

Jim's dog eats 5 dog biscuits each day.

Has Jim bought enough dog biscuits for 4 weeks?

You must show how you get your answer.

(Total for Question 10 is 3 marks)



11 Here are some fractions.

$$\frac{4}{6} \quad \frac{20}{30} \quad \frac{6}{9} \quad \frac{8}{12} \quad \frac{10}{16}$$

One of these fractions is **not** equivalent to $\frac{2}{3}$

(a) Which fraction?

.....
(1)

(b) Work out $\frac{4}{5} - \frac{1}{15}$

.....
(2)

(Total for Question 11 is 3 marks)

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12 Luma makes 32 cakes.

20 of the cakes are large.
4 of the small cakes are not decorated.
9 of the decorated cakes are large.

(a) Use the information to complete the two-way table.

	Large	Small	Total
Decorated			
Not decorated			
Total			

(3)

One of the cakes is chosen at random.

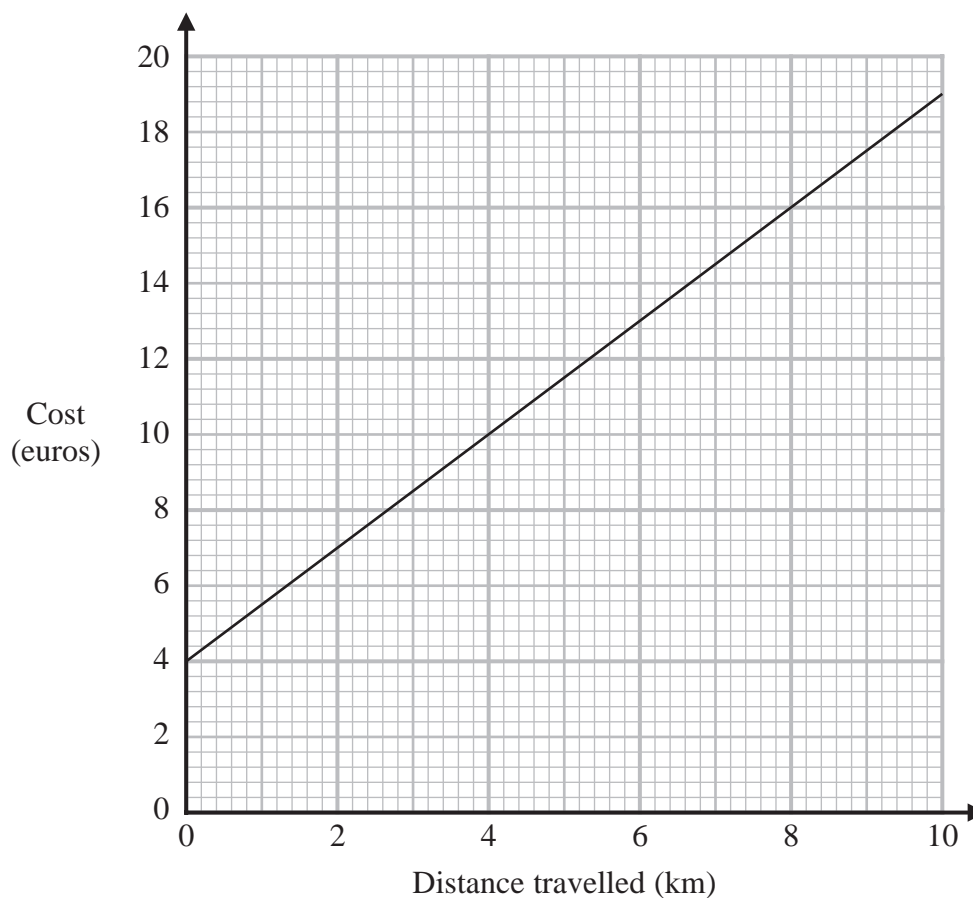
(b) Write down the probability that this cake is not decorated.

(2)

(Total for Question 12 is 5 marks)



13 The graph shows information about the costs of taxi journeys in France.



For each journey, there is a fixed charge plus a charge for the distance travelled.

(a) How much is the fixed charge?

..... euros
(1)

Jean makes two journeys by taxi.

One journey is 6 km more than the other journey.

(b) Work out the difference between the costs of these two journeys.

..... euros
(2)

(Total for Question 13 is 3 marks)



14 Caroline, Felix and Graham complete a puzzle.

It took Felix three times as long as Caroline to complete the puzzle.

It took Graham a quarter of the time it took Caroline to complete the puzzle.

Write down the ratio of Caroline's time to Felix's time to Graham's time.

Give your answer in the form $a:b:c$ where a , b and c are whole numbers.

(Total for Question 14 is 3 marks)



15 Here is a list of ingredients for making 6 pancakes.

Ingredients for 6 pancakes

100 g plain flour
300 ml milk
2 eggs
1 tablespoon cooking oil

Jenny wants to make 15 pancakes.

Work out how much of each of the ingredients she needs.

plain flour g

milk ml

eggs

cooking oil tablespoons

(Total for Question 15 is 3 marks)

16 $t = 10$

$w = 6$

(a) Work out the value of $2t - 3w$

.....
(2)

(b) Simplify $5m + 3p + m - 2p$

.....
(2)

(Total for Question 16 is 4 marks)



17 Patrick wants to buy 20 rucksacks.

There is a special offer.

Rucksacks cost £21.40 each

Buy 20 or more rucksacks
get 15% off the total cost

Work out the cost of buying 20 rucksacks using the special offer.

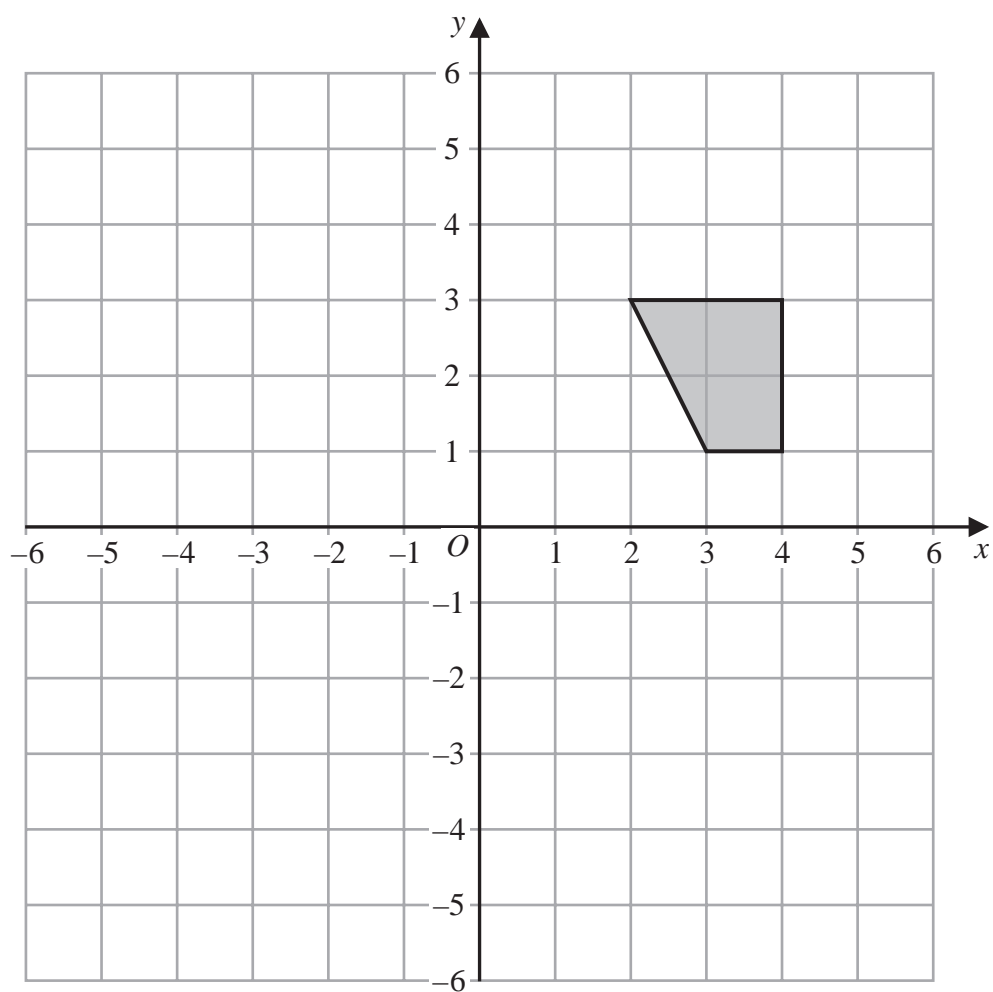
£.....

(Total for Question 17 is 4 marks)



S 7 0 4 0 0 A 0 1 1 2 0

18



Rotate the shaded shape 90° anticlockwise about $(1, 0)$

(Total for Question 18 is 2 marks)

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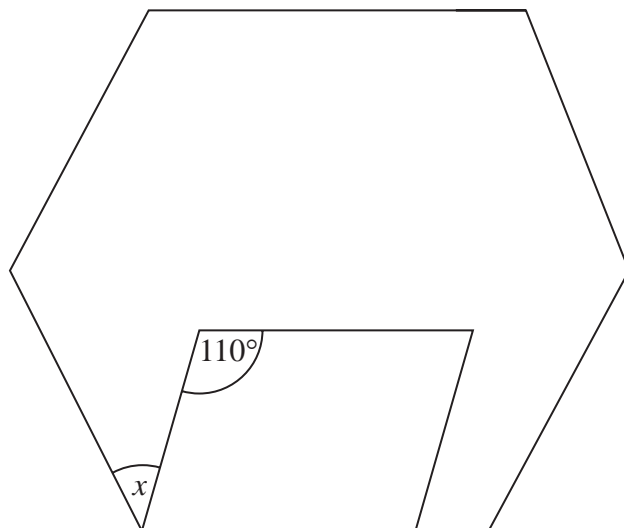
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19 The diagram shows a regular hexagon and a parallelogram.



Work out the size of the angle marked x .
You must show all your working.

$x =$

(Total for Question 19 is 4 marks)



20 Solve the simultaneous equations

$$\begin{aligned}4x + 2y &= 3 \\ x - y &= 6\end{aligned}$$

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

(Total for Question 20 is 3 marks)

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- 21** Tim, Jason and Peter share £60 in the ratio 3:2:5

How much money does Jason get?

£.....

(Total for Question 21 is 2 marks)

- 22** Dave is 4 years older than Colin.
Ruth is three times as old as Dave.

The total of their three ages is 56

Work out Ruth's age.

(Total for Question 22 is 4 marks)



S 7 0 4 0 0 A 0 1 5 2 0

23 The volume of a solid cube is 125 cm^3

Work out the total surface area of the cube.

..... cm^2

(Total for Question 23 is 4 marks)

24 Darren walks at a speed of 5.7 kilometres per hour.

(a) Work out an estimate for the distance, in metres, that Darren walks in 19 minutes.

..... metres
(3)

(b) Is your answer to part (a) an underestimate or an overestimate?
Give a reason for your answer.

.....
(1)

(Total for Question 24 is 4 marks)



25 A company's profit of £18 000 is shared by 2 directors and 24 employees.

$\frac{1}{3}$ of the profit is shared equally between the 2 directors of the company.

The rest of the profit is shared equally between the 24 employees of the company.

The amount each director gets = $n \times$ the amount each employee gets.

Work out the value of n .

You must show how you get your answer.

$n = \dots\dots\dots$

(Total for Question 25 is 4 marks)



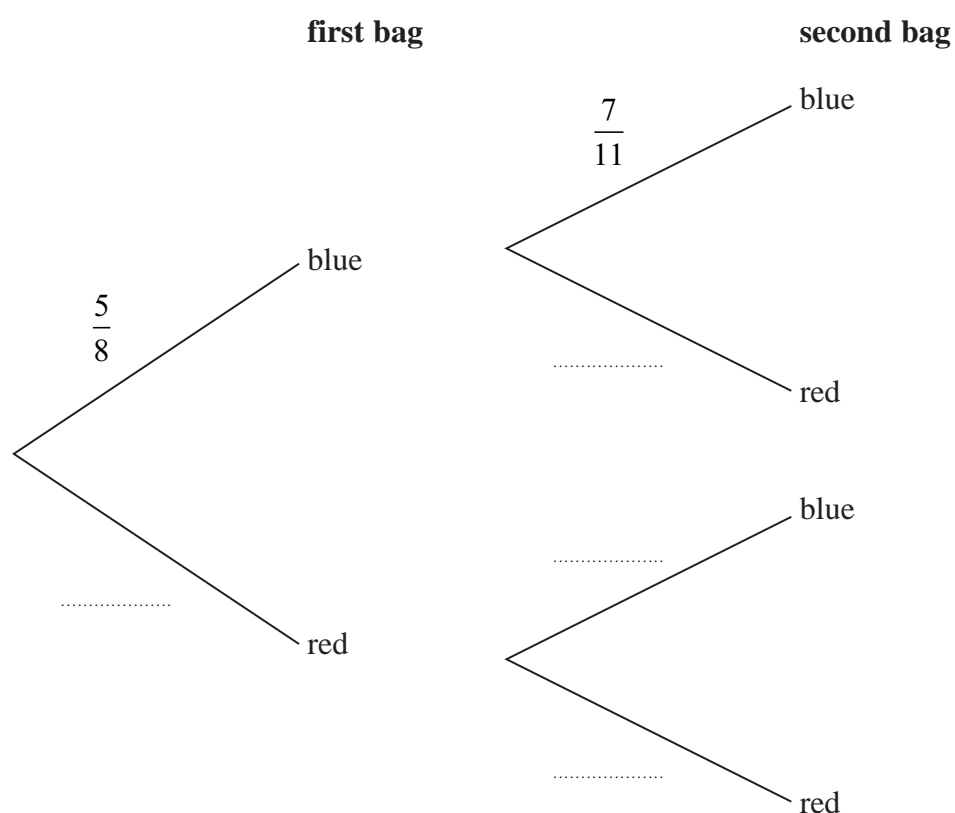
S 7 0 4 0 0 A 0 1 7 2 0

26 Kabita has two bags.

In the first bag there are 5 blue discs and 3 red discs.
In the second bag there are 7 blue discs and 4 red discs.

Kabita takes at random a disc from the first bag.
She then takes at random a disc from the second bag.

(a) Complete the probability tree diagram.



(2)

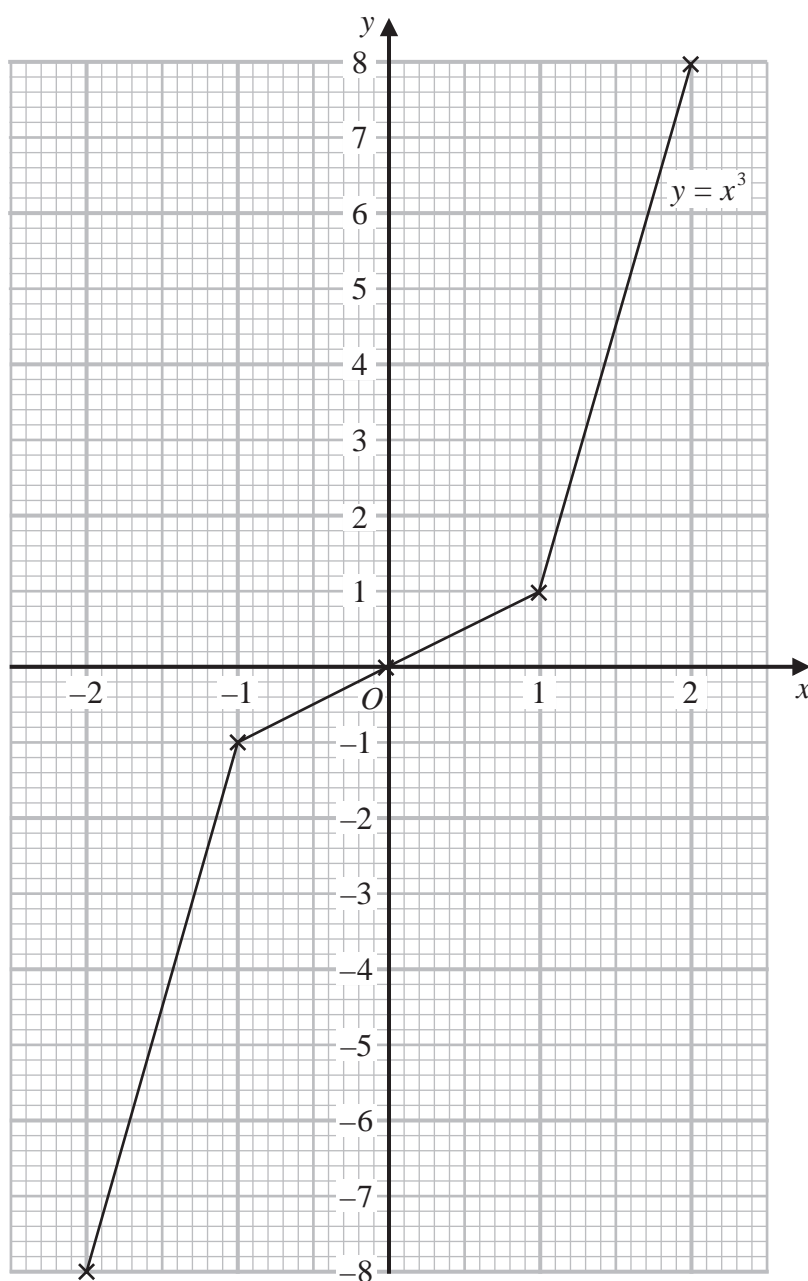
(b) Work out the probability that Kabita takes two red discs.

(2)

(Total for Question 26 is 4 marks)



- 27 Alice is asked to draw the graph of $y = x^3$
Here is her graph.



Write down one thing that is wrong with Alice's graph.

.....

.....

.....

(Total for Question 27 is 1 mark)



28 (a) Simplify fully $3x^2y^3 \times 5x^3y$

(2)

(b) Expand and simplify $(2k + 1)(3k - 4)$

(2)

(Total for Question 28 is 4 marks)

TOTAL FOR PAPER IS 80 MARKS

