

Write your name here

Surname

Other names

Centre Number

Candidate Number

**Pearson Edexcel International
Primary Curriculum**

Mathematics

Year 6 Achievement Test

Friday 3 June 2016 – Morning
Time: 1 hour

Paper Reference
JMA01/01

You must have:

Ruler graduated in centimetres and millimetres, protractor, compasses, mirror, 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.*
- Calculators are **NOT** allowed.



Information

- The total mark for this paper is 60.
- 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.

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Turn over ►

PEARSON

SECTION A

Answer ALL questions.

In Section A put a cross in one box to indicate your answer. If you change your mind, put a line through the box and then put a cross in another box .

Each question in Section A is worth one mark.

1 Calculate $58 + 26$

32

74

84

714

2 What is the value of x in this equation?

$$x + 14 = 20$$

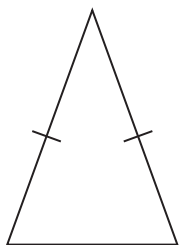
4

6

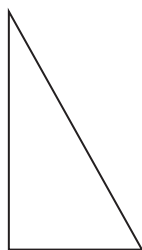
34

36

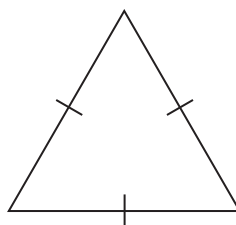
3 Which triangle has exactly 1 line of symmetry?



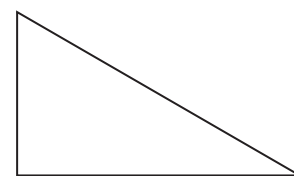
A



B



C



D

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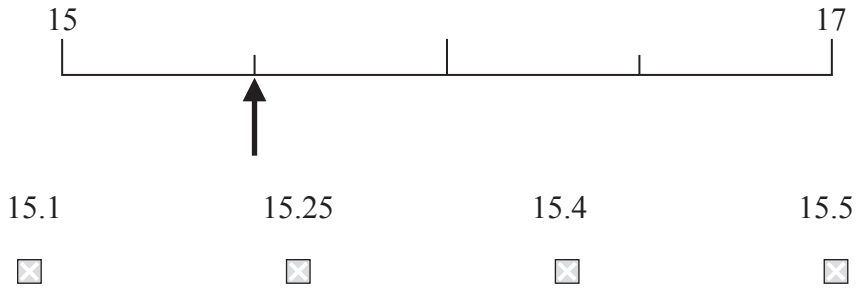
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4 Here is a number line.

What number is the arrow pointing to?



5 Vijay has done a traffic survey.

He has drawn a sorting diagram of his results.

	Red	Not Red
Car	14	17
Not Car	12	23

How many cars were not red?

- 14 17 26 40
-

6 What is 2860 rounded to the nearest hundred?

- 2000 2800 2900 3000
-



7 What is $\frac{2}{3}$ of 24?

8

16

18

36

8 Which of these numbers is a square number?

15

24

32

49

9 What is 40% of 70?

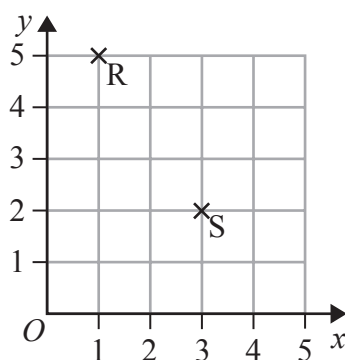
7

26

28

280

10 R and S are corners of a right-angled triangle.



What could the coordinates of the third corner be?

(2, 1)

(3, 4)

(3, 5)

(5, 3)



11 Simplify this expression.

$$5a + 3b - a + 5b$$

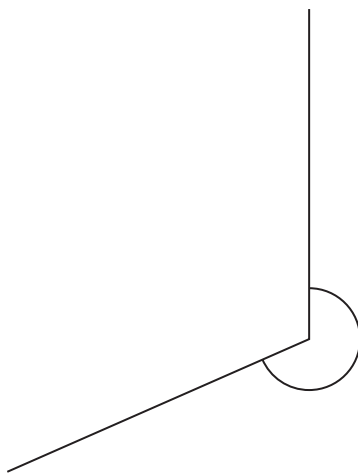
$5 + 8b$

$12ab$

$4a - 8b$

$4a + 8b$

12 What name is given to the angle marked?



Reflex

Obtuse

Acute

Right angle

13 Jamie puts 5 coloured counters into his pocket.

The counters are red, yellow, green, blue and white.

He takes out a counter at random.

What is the likelihood of Jamie taking out a **black** counter?

impossible

unlikely

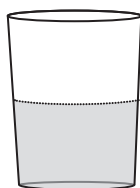
likely

certain



14 Zayd's glass is half full of water.

Estimate how much water is in his glass.



1.5 l

150 mm

150 ml

15 kg

15 Here are the test results of Sarah's maths group.

11 12 15 12 14

Sarah has been asked to find the mode and range of the results.

Which answer is correct?

Mode: 15
Range: 4

Mode: 12
Range: 3

Mode: 12
Range: 4

Mode: 15
Range: 3

16 What is the highest common factor (HCF) of 12 and 36?

3

6

12

36



17 What is the value of y in this equation?

$$2y - 7 = 13$$

3



6



10



20



18 The diagram shows Mr Smith's garden with a shed in one corner.

The garden measures 10 m by 6 m.

The shed measures 3 m by 2 m.

He puts a fence around the remaining perimeter of the garden.

Calculate the length of fence he will need.



Diagram **NOT** accurately drawn

22 m



26 m



27 m

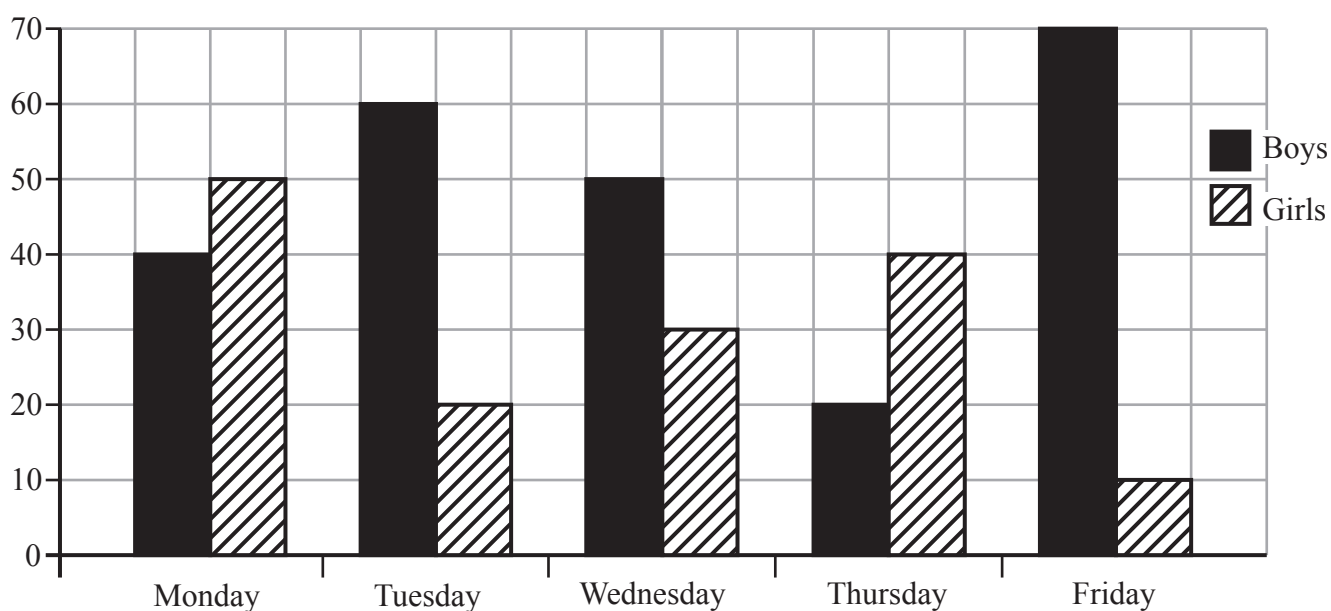


54 m



19 The dual bar chart shows how many boys and girls went swimming from Monday to Friday.

On which day did the most children go swimming?



Monday

Tuesday

Wednesday

Friday

20 Mrs Amin needs $\frac{3}{4}$ kg of flour to make a loaf of bread.

She has 2.15 kg of flour in her cupboard.

How much flour will she have left when she has made one loaf of bread?

140 g

535 g

0.9 kg

1.4 kg

TOTAL FOR SECTION A IS 20 MARKS



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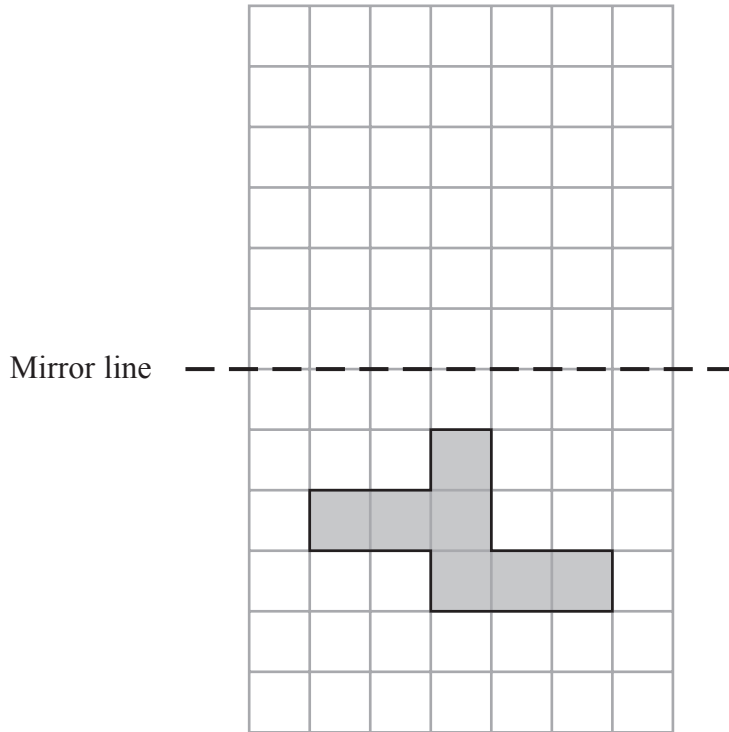
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SECTION B

Answer ALL questions.

21 Reflect the shape in the mirror line.



(Total for Question 21 is 1 mark)

22 Draw lines to join together pairs of equivalent fractions. One has been done for you.

$$\frac{75}{100}$$

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

$$\frac{3}{4}$$

$$\frac{5}{8}$$

$$\frac{10}{16}$$

$$\frac{2}{6}$$

$$\frac{5}{10}$$

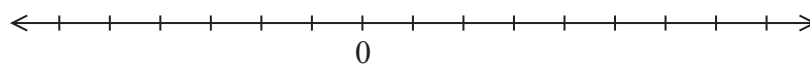
$$\frac{1}{3}$$

(Total for Question 22 is 1 mark)



23 Put each of these numbers in the correct place on the number line.

6 -3 2 3 -5



(Total for Question 23 is 2 marks)

24 Raj's English class did a spelling test.

Here are their results.

9	4	9	10	5
6	10	11	7	9
7	9	8	6	8
8	11	7	12	6

(i) What was the most common result in the test?

.....
(1)

(ii) What is the range of the results?

.....
(1)

(Total for Question 24 is 2 marks)



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25 Peter's school has a gymnastics club.

In the club there are 2 boys for every 3 girls.

There are 6 boys in the club.

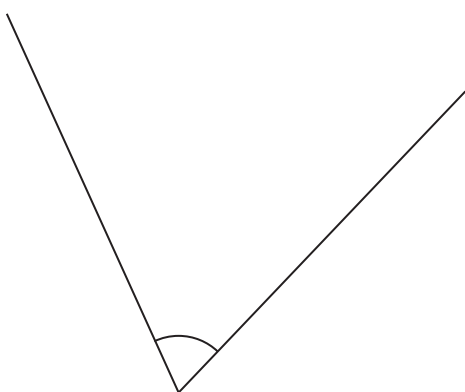
How many girls are there?

.....

(Total for Question 25 is 1 mark)

26 Use an angle measurer to measure the size of each marked angle. Give your answer in degrees.

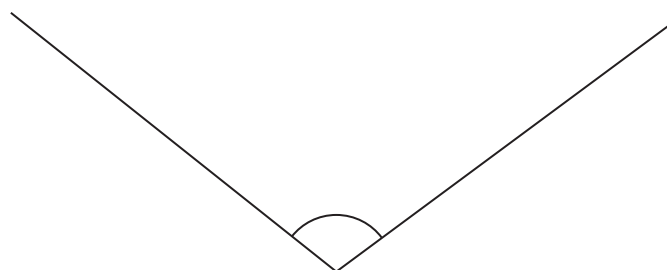
(a)



.....

(1)

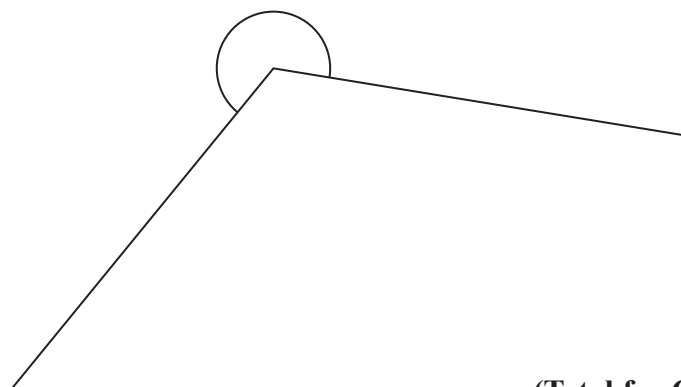
(b)



.....

(1)

(c)



.....

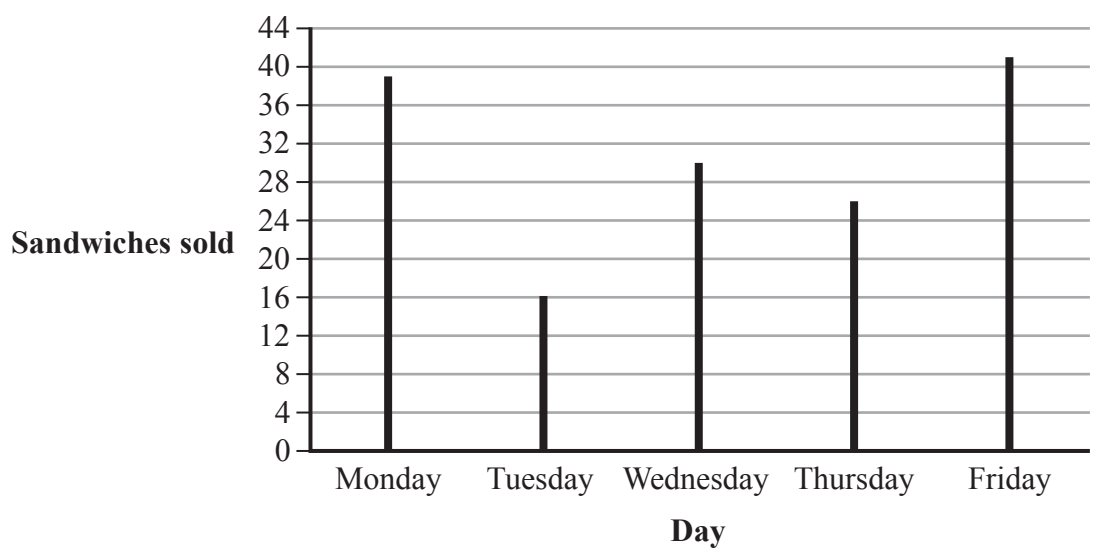
(1)

(Total for Question 26 is 3 marks)



P 4 6 4 3 5 A 0 1 1 2 0

27 Safi has drawn a line graph to show how many sandwiches were sold at school during one week.



(i) On which day were the most sandwiches sold?

.....
(1)

(ii) Estimate the number of sandwiches the school sold in the first three days.

.....
(2)

(Total for Question 27 is 3 marks)

28 Circle the numbers that are multiples of 8

One has been done for you.

- 56
- 24
- 28
- 48
- 32
- 18
- 36

(Total for Question 28 is 1 mark)



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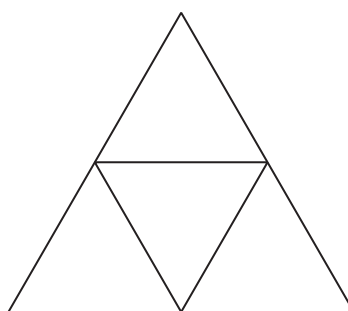
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29 Complete this table showing equivalent fractions, decimals and percentages.

Fraction	Decimal	Percentage
$\frac{1}{2}$		50%
	0.1	10%
	0.35	
$\frac{11}{25}$		

(Total for Question 29 is 2 marks)

30 This is the net of a 3D shape.



What 3D shape will be formed when the net is folded?

(Total for Question 30 is 2 marks)



31 Write in the missing number.

$$3 \times \square = 48$$

.....
(Total for Question 31 is 1 mark)

32 By rounding each number to the nearest whole number, estimate the answer to

$$1.8 \times 23.2$$

.....
(Total for Question 32 is 1 mark)

33 Change $\frac{19}{4}$ into a mixed number.

.....
(Total for Question 33 is 1 mark)

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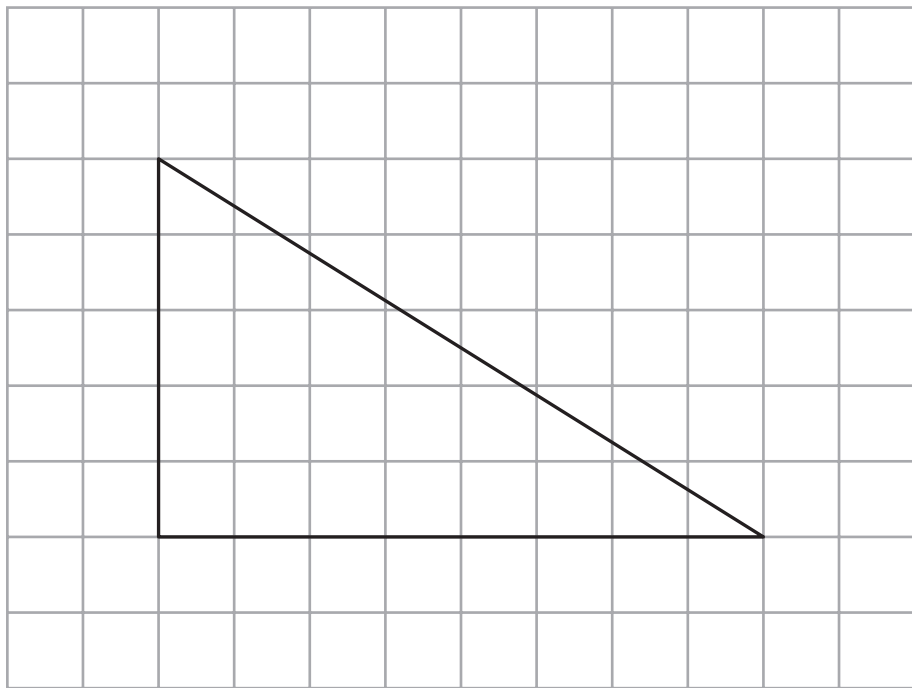
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34 The triangle is drawn on a centimetre square grid.

What is the area of the triangle?



..... cm²

(Total for Question 34 is 1 mark)

35 Work out

(a) 20% of 160

..... (1)

(b) 5% of 40

..... (1)

(c) 65% of 600

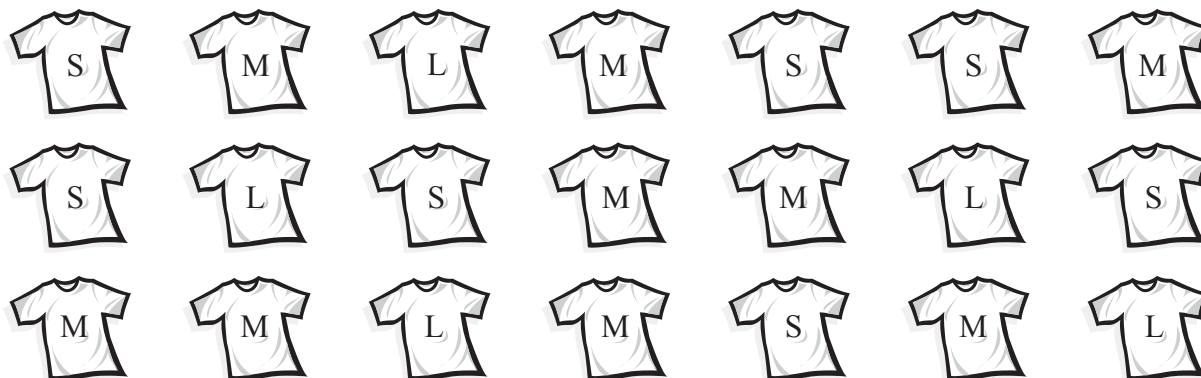
..... (1)

(Total for Question 35 is 3 marks)



36 Class 6 did a survey of their T-shirt size.

John recorded the information by drawing T-shirts.



Complete this frequency table to show John's information.

T-shirt Size		
S		
M		
L		

(Total for Question 36 is 3 marks)

37 Sanjid and Amelia share \$160 in the ratio 5:3

Sanjid receives the most money.

How much more money does Sanjid receive than Amelia?

\$.....

(Total for Question 37 is 2 marks)



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38 Triangle ABC is an isosceles triangle.

Angle $ABC = 70^\circ$

Work out the size of angle BAC .

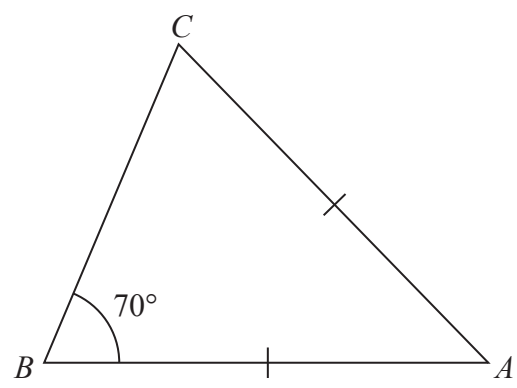


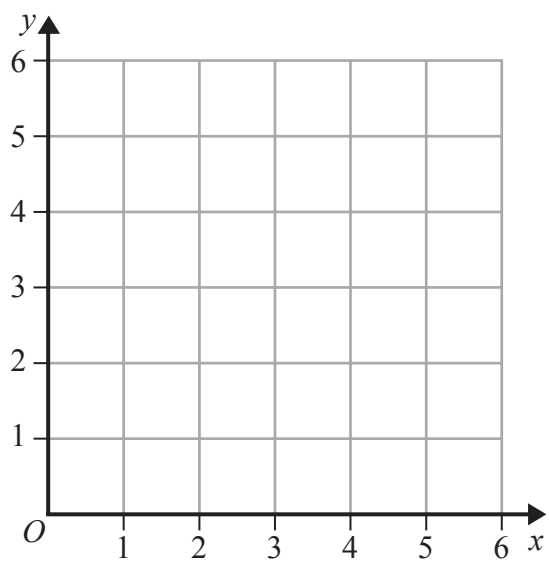
Diagram NOT accurately drawn

(Total for Question 38 is 2 marks)

39 Draw the following lines on the graph

(i) $x = 2$

(ii) $y = 5$



(Total for Question 39 is 1 mark)



P 4 6 4 3 5 A 0 1 7 2 0

40 Amera tosses a coin twice and records her outcomes as *Heads* or *Tails*.

She repeats this activity.

(i) Complete this table to show all the possible outcomes.

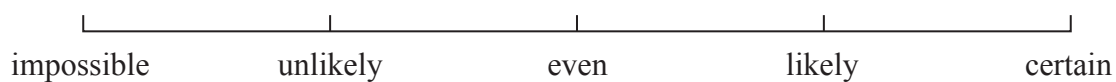
1st Toss	2nd Toss

(1)

(ii) What is the probability of Amera tossing one *head* and one *tail*?

(1)

(iii) On the scale below, draw an arrow to show the chance of Amera tossing one *head* and one *tail*.



(1)

(Total for Question 40 is 3 marks)



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41 Expand

$$3(2x - 4)$$

.....

(Total for Question 41 is 1 mark)

42 Here is a sequence of numbers.

4 10 16 22 28

(a) What are the next two numbers in this sequence?

.....

(1)

(b) Write down an expression for the n th term of this sequence.

.....

(2)

(Total for Question 42 is 3 marks)

**TOTAL FOR SECTION B IS 40 MARKS
TOTAL FOR PAPER IS 60 MARKS**



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