

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

**Pearson Edexcel International  
Award in Primary**

**Thursday 28 May 2020**

Morning (Time: 1 hour)

Paper Reference **JMA11/01**

**Mathematics**

**Year 6**

**Achievement Test**



**You must have:**

Ruler graduated in centimetres and millimetres, pen, HB pencil, eraser, protractor. Tracing paper may be used.

Total Marks

### Instructions

- Use **black** ink or **black** 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.*

### 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.*
- Candidates may **NOT** use a calculator.

### 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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## SECTION A

Answer ALL questions.

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

1 What is the value of the 9 in this number?

8964

9

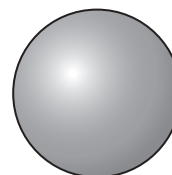
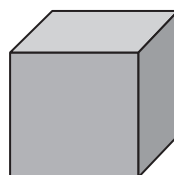
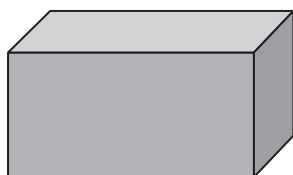
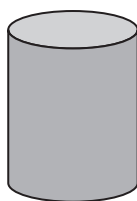
900

90

9000

(Total for Question 1 is 1 mark)

2 Which of these shapes is a cylinder?



(Total for Question 2 is 1 mark)

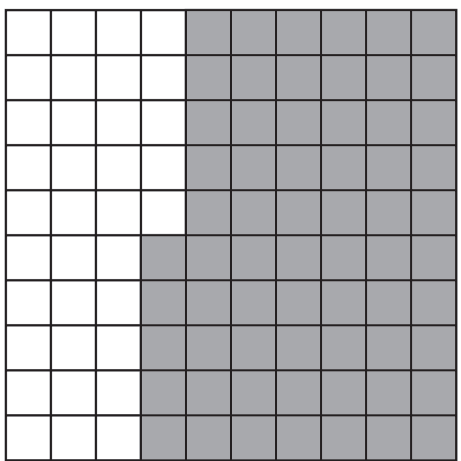
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3 What percentage of this square is shaded?



$\frac{35}{100}$

35%

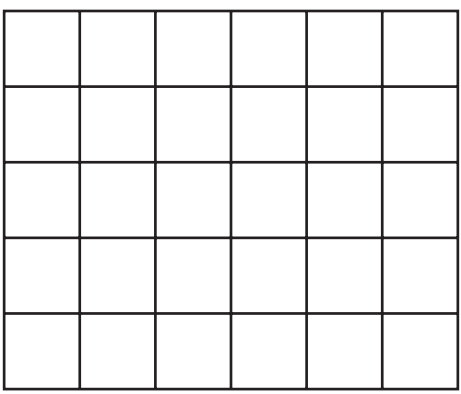
$\frac{65}{100}$

65%

(Total for Question 3 is 1 mark)

4 This rectangle has been cut from a centimetre square grid.

What is the perimeter of the rectangle?



11 cm

18 cm

22 cm

30 cm

(Total for Question 4 is 1 mark)



5 What is 53 749 rounded to the nearest thousand?

50 000

53 000

54 000

60 000

(Total for Question 5 is 1 mark)

6 Aisha uses the rule:

*'subtract 1 from the previous number then double'*

to generate this number sequence.

4, 6, 10, ..... , 34

What is the missing number?

16

18

19

66

(Total for Question 6 is 1 mark)



7 Calculate

$$4.55 + 2.71$$

1.84



2.24



6.126



7.26



(Total for Question 7 is 1 mark)

8 A line is 87 mm long.

How long is the line in centimetres?

0.087 cm



0.87 cm



8.7 cm



870 cm



(Total for Question 8 is 1 mark)

9 What is the mean of these weights?

6 kg

4 kg

5 kg

11 kg

4 kg

4 kg



5 kg



6 kg



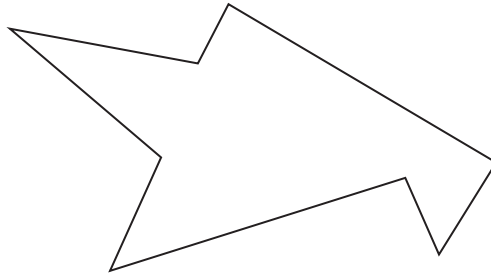
7 kg



(Total for Question 9 is 1 mark)



10 What is the name of this irregular shape?



Heptagon

Pentagon

Hexagon

Octagon

(Total for Question 10 is 1 mark)

11 Which of these is a prime number?

27

57

67

87

(Total for Question 11 is 1 mark)



12 Which pair of numbers are common multiples of 3 and 7?

21, 42

18, 21

21, 35

35, 42

(Total for Question 12 is 1 mark)

13 Calculate

35% of 120

12

36

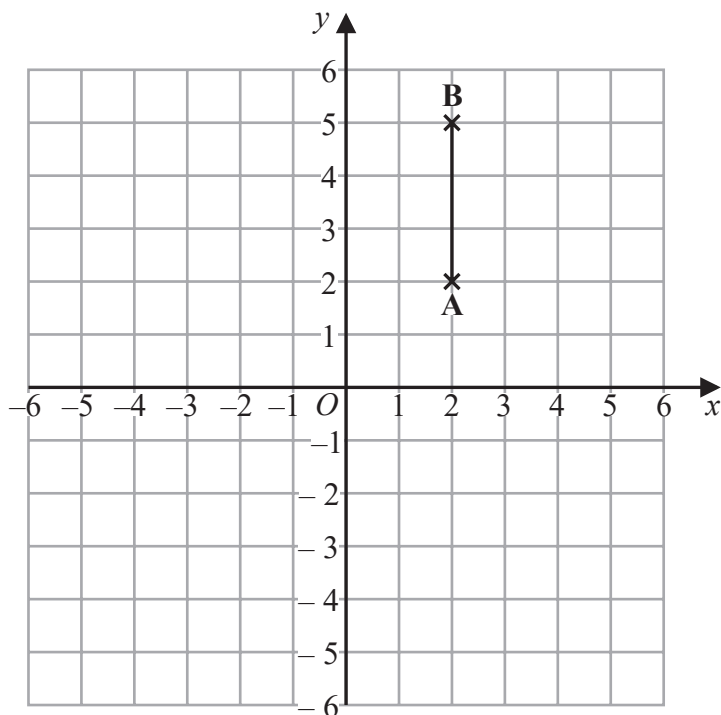
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42

(Total for Question 13 is 1 mark)



14 A and B are two points of a right-angled triangle.



Which of these could be the third point of the right-angled triangle?

(4, 5)

(4, 1)

(1, 4)

(5, 4)

(Total for Question 14 is 1 mark)

15 In a shop, pens cost \$1.35 and pencils cost \$0.79

How much would it cost to buy 1 pen and 2 pencils?

\$2.14

\$2.70

\$2.93

\$3.49

(Total for Question 15 is 1 mark)





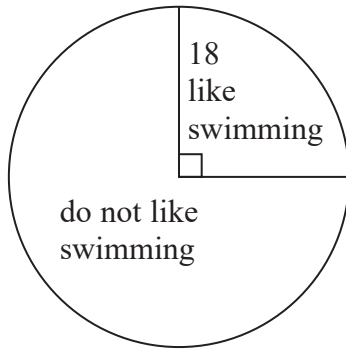
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16 Omar did a survey about swimming.

This pie chart shows his results.



How many people did Omar ask altogether?

- 54
- 72
- 100
- 118

(Total for Question 16 is 1 mark)

17 Lexie and Paul have \$420  
They share it in the ratio 4:3  
How much does Lexie receive?

- \$60
- \$105
- \$180
- \$240

(Total for Question 17 is 1 mark)



18 What is the size of angle  $x$ ?

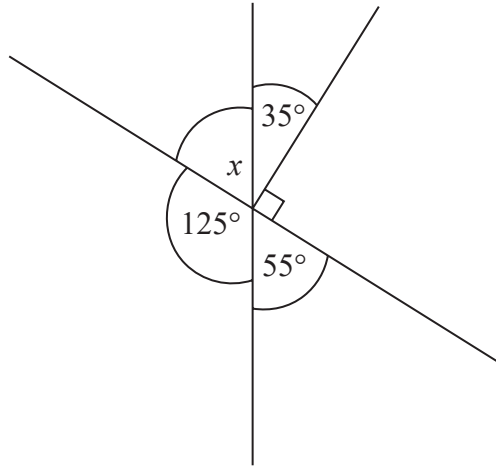


Diagram NOT drawn to scale

45°

55°

145°

215°

(Total for Question 18 is 1 mark)

19 Calculate

$$6a - 2b + c$$

when  $a = 3$ ,  $b = 6$ ,  $c = 7$

8

13

37

44

(Total for Question 19 is 1 mark)

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20 Calculate

$$\frac{4}{5} \div 8$$

$$\frac{1}{10}$$



$$\frac{2}{5}$$



$$\frac{32}{40}$$



$$\frac{40}{4}$$



(Total for Question 20 is 1 mark)

TOTAL FOR SECTION A IS 20 MARKS



P 6 5 8 6 0 A 0 1 1 2 4

## SECTION B

Answer ALL questions.

21 Here is a distance chart.

All distances are given in kilometres.

New Town

42	Greenville				
230	249	Sugar Top			
212	230	60	Sun City		
191	210	122	69	Water Bay	
224	243	38	24	96	Bridge Town

It is 42 km from New Town to Greenville.

(a) How far is it from Greenville to Sugar Top?

..... km  
(1)

(b) Yusuf drives from Sun City to New Town.

He stops after 60 km to get fuel.

How much further does he have to travel?

..... km  
(2)

(Total for Question 21 is 3 marks)

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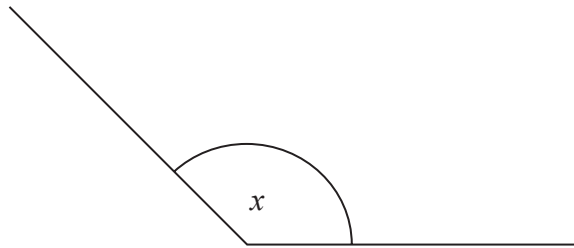


22 Complete this table.

	Fraction	Decimal	Percentage
(i)	$\frac{1}{2}$	0.5	..... %
(ii)	.....	0.75	75%
(iii)	$\frac{3}{10}$	.....	30%

(Total for Question 22 is 3 marks)

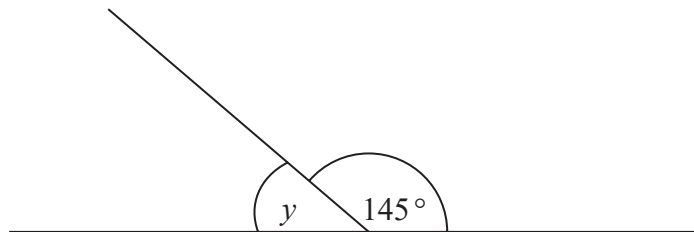
23 (a) Measure the size of angle  $x$ .



.....  
(1)

(b) Calculate the size of angle  $y$ .

Diagram NOT  
accurately drawn



.....  
(1)

(Total for Question 23 is 2 marks)



24 Write these numbers in order of size.

Start with the smallest.

7.7

3.7

7.37

3.37

smallest .....  
.....  
.....  
.....

(Total for Question 24 is 1 mark)

25 Some members of a running group recorded their weekly running totals.

27 km

16 km

45 km

27 km

46 km

37 km

What was the range of their distances?

..... km

(Total for Question 25 is 1 mark)



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26 Sanjay needed some new football kit.

He bought

a football



\$4.69

football boots



\$21.57

football socks



\$3.28

(a) How much did Sanjay spend altogether?

\$ .....  
(1)

(b) Sanjay had \$30 to spend on the football kit.

How much change should he receive?

\$ .....  
(1)

(Total for Question 26 is 2 marks)



27 (a) Calculate

$$\frac{1}{5} + \frac{3}{5}$$

.....  
(1)

(b) Calculate

$$\frac{1}{5} \text{ of } 75$$

.....  
(1)

(c) Calculate

$$\frac{3}{5} \text{ of } 60$$

.....  
(1)

**(Total for Question 27 is 3 marks)**

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28 (a) Calculate

$$47.3 \times 1000$$

.....  
(1)

(b) Calculate

$$29.36 \div 100$$

.....  
(1)

(Total for Question 28 is 2 marks)

29 Esme writes this number sequence.

1, 4, 7, 10, 13, .....

(a) What is the term to term rule for Esme's number sequence?

.....  
(1)

(b) The  $n^{\text{th}}$  term of Esme's number sequence is  $3n - 2$

What will the 15<sup>th</sup> term be?

.....  
(1)

(Total for Question 29 is 2 marks)



30 Sven's class collected some data about how they get to school.

There are 30 children in Sven's class.

12 are boys.

13 girls walk to school.

In total, 24 children walk to school.

(a) Insert the given information into the table, using the shaded sections.

One has been done for you.

(1)

	Walk	Do not walk	Total
Boy			
Girl			
			30

(b) Complete the table.

(2)

(Total for Question 30 is 3 marks)



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31 (a) Calculate

$$2419 \times 46$$

You must show your working.

.....  
(2)

(b) Calculate

$$5819 \div 23$$

You must show your working.

.....  
(2)

(Total for Question 31 is 4 marks)



32 Find a 2-digit number that is both a **square number** and a **cube number**.

.....  
(Total for Question 32 is 2 marks)

33 Zain left his house at **07:25**

It took him 5 minutes to walk to the bus stop.

He waited 12 minutes for the bus to arrive.

The bus journey took 19 minutes to get to school.

Zain's school day begins at **08:00**

Did Zain arrive at school on time?

Yes

No

Explain how you know.

.....  
.....  
.....  
(Total for Question 33 is 2 marks)

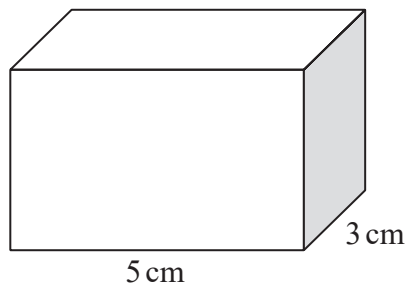


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34 The volume of this cuboid is  $60 \text{ cm}^3$



The height of the cuboid is missing from the diagram.

What is the height of this cuboid?

..... cm

**(Total for Question 34 is 1 mark)**



35 (a) Simplify

$$3a - 4b + a + 2b - 2a$$

.....  
(1)

(b) Expand and simplify

$$4(2x - y) + 3(x + 3y)$$

.....  
(2)

(c) Solve the equation

$$4y + 3 = 19$$

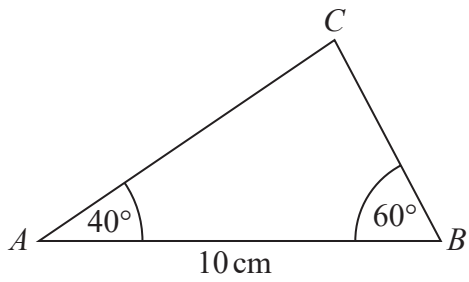
$$y = \text{.....} \quad (1)$$

(Total for Question 35 is 4 marks)

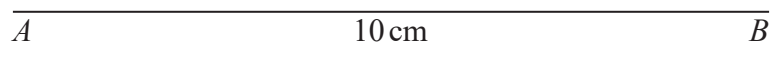


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36 Triangle  $ABC$  is not drawn accurately.



Using the line  $AB$  below, accurately construct triangle  $ABC$ .







(Total for Question 36 is 2 marks)



37 Noor needs to make 30 cookies for the school bake sale.

She is going to use the following recipe.

	<b>Cookie Recipe</b>	
	100 g sugar 200 g butter 250 g flour	
	Makes 12 cookies	

Noor already has:

200 g of sugar

500 g of butter

500 g of flour

How much more of each ingredient does she require?

Sugar ..... 50

Butter ..... 50

Flour ..... 50

(Total for Question 37 is 3 marks)

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

