

Please check the examination details below before entering your candidate information

Candidate surname	Other names
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Centre Number	Candidate Number
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## Pearson Edexcel International Award in Primary

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, compasses. 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.*



### 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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Q:1/1/1/



Pearson

## SECTION A

Answer ALL questions. Write your answers in the spaces provided.

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 .

1 Work out

$$254 - 38$$

216

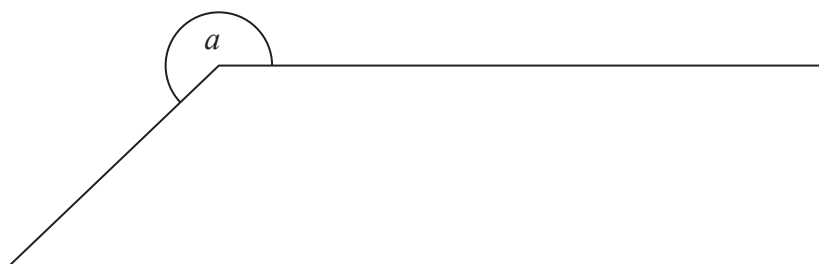
224

282

292

(Total for Question 1 is 1 mark)

2 What name is given to the angle marked  $a$ ?



Acute

Reflex

Right angle

Obtuse

(Total for Question 2 is 1 mark)



3 Here is a number pattern.

The rule is subtract 6

54

48

36

30

What is the missing number?

26

38

42

60

(Total for Question 3 is 1 mark)

4 Work out

$\frac{1}{4}$  of 48

12

24

36

192

(Total for Question 4 is 1 mark)



5 What is the mean of this set of numbers?

10      7      6      10      5      14      4

6                      7                      8                      10  
                                                                 

(Total for Question 5 is 1 mark)

6 The sides of a rectangle are 6 cm and 5 cm.

What is the perimeter of the rectangle?

11 cm                      17 cm                      22 cm                      30 cm  
                                                                 

(Total for Question 6 is 1 mark)

7 Which of these is a prime number?

15                      19                      36                      51  
                                                                 

(Total for Question 7 is 1 mark)



8 What is 3.46 m equivalent to?

346 mm



34.6 cm



346 cm



3460 cm



(Total for Question 8 is 1 mark)

9 The rule for this number sequence is

*double the number and subtract 2*



14

26

50

98

What is the missing number?

6



8



9



24



(Total for Question 9 is 1 mark)

10 A radius of 4 cm has been drawn on this circle.

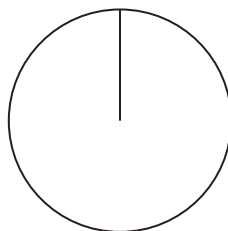


Diagram NOT  
accurately drawn

What is the length of the diameter?

2 cm



4 cm



8 cm



16 cm



(Total for Question 10 is 1 mark)



11 A recipe for cookies uses only flour, sugar and butter.

20% of the ingredients is sugar.

50% of the ingredients is flour.

What percentage of the ingredients is butter?

20%

30%

50%

70%

(Total for Question 11 is 1 mark)

12 Which of these letters has one line of symmetry?

**C**

**F**

**L**

**R**

(Total for Question 12 is 1 mark)

13 Calculate

$$8.4 \times 5$$

40

42

45

420

(Total for Question 13 is 1 mark)



14 What is 127 489 rounded to the nearest thousand?

127 000



127 400



127 500



128 000



(Total for Question 14 is 1 mark)

15 Errol has \$20

In a shop, a drink costs \$3.69 and a cake costs \$2.50  
Errol buys a drink and two cakes.

How much money does Errol have left?

\$8.69



\$11.31



\$12.41



\$13.81



(Total for Question 15 is 1 mark)

16 Simplify this expression

$$2x + 3y - 2y + x$$

$x + y$



$3x + 5y$



$2x + y$



$3x + y$



(Total for Question 16 is 1 mark)



17 Work out

$$\frac{4}{5} \text{ of } 360 \text{ m}$$

72 m



216 m



288 m

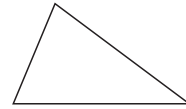
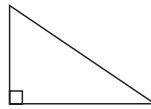
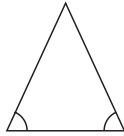
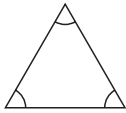


450 m



(Total for Question 17 is 1 mark)

18 Which of these is an isosceles triangle?



(Total for Question 18 is 1 mark)



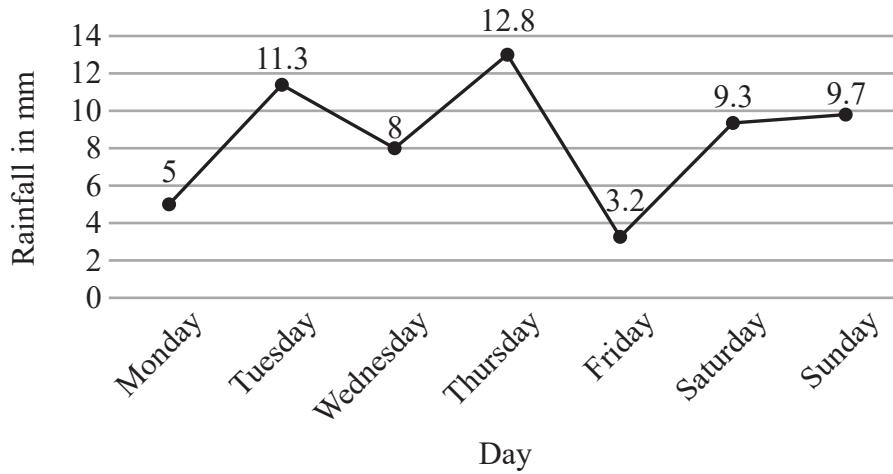


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19 This graph shows the daily rainfall for a week.



What fraction of the days had less than 10 mm of rainfall?

$\frac{2}{7}$



$\frac{7}{2}$



$\frac{7}{5}$



$\frac{5}{7}$



(Total for Question 19 is 1 mark)

20 Work out

$137 \div 6$

$22\frac{2}{17}$



$22\frac{1}{6}$



$22\frac{5}{17}$



$22\frac{5}{6}$



(Total for Question 20 is 1 mark)

TOTAL FOR SECTION A IS 20 MARKS

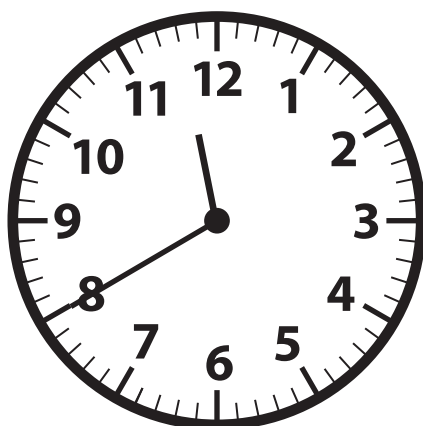


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SECTION B

Answer ALL questions.

21 This clock shows the time a train is due to arrive at a station.



(a) How would this be displayed on a digital clock?

(1)

(b) The train is 35 minutes late.

What time does the train arrive at the station?

(1)

(Total for Question 21 is 2 marks)

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22 The children in Rohan's class chose their favourite sport.

Their answers are listed below.

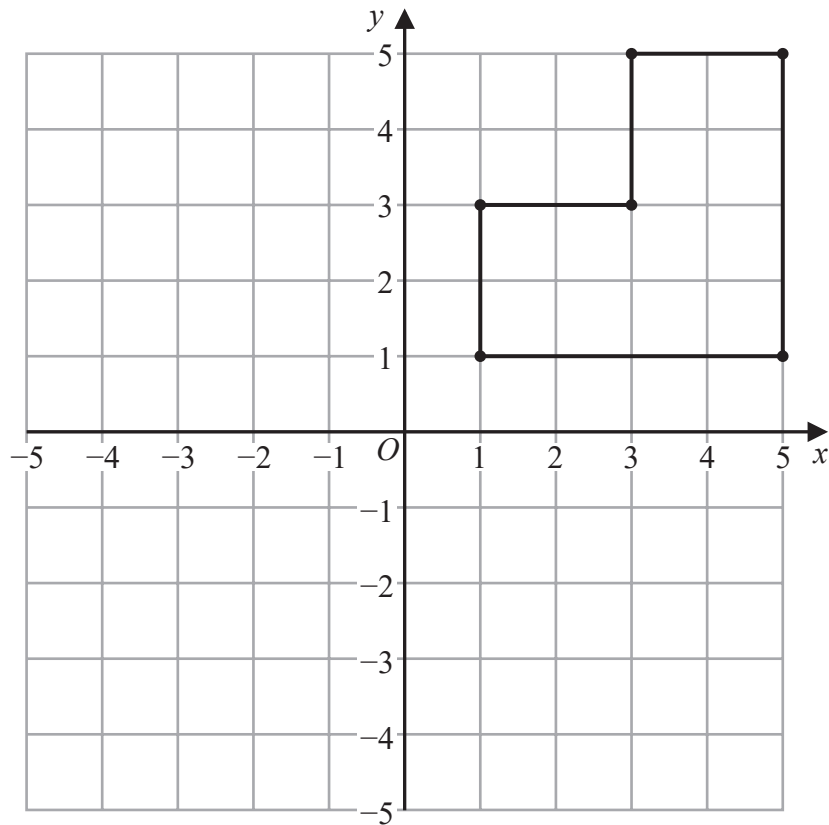
football	cricket	swimming	football	football
swimming	football	cricket	football	cricket
cricket	running	hockey	swimming	football
football	football	running	football	swimming
running	football	cricket	football	cricket

Design and complete a **tally chart** for this information.

(Total for Question 22 is 3 marks)



23 Reflect this shape in the x axis.



(Total for Question 23 is 1 mark)

24 How many days altogether are there in March, April and May?

(Total for Question 24 is 1 mark)

25 Write these numbers in order of size.

Start with the smallest.

0.43

0.7

25%

$\frac{6}{10}$

.....  
smallest

(Total for Question 25 is 1 mark)



26 Alison has \$45

She shares it in the ratio 3 : 2 with her younger sister.

Alison gets the most money.

How much money do they each get?

Alison \$ .....

Sister \$ .....

**(Total for Question 26 is 2 marks)**

27 Calculate

(a)  $134.6 + 24.31$

.....  
(1)

(b)  $287.41 - 29.3$

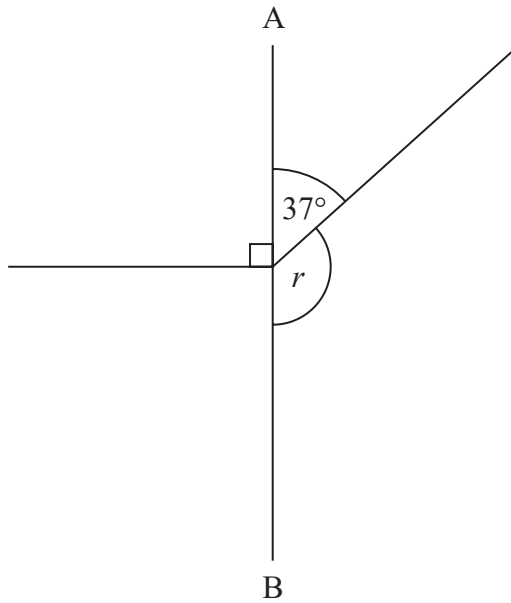
.....  
(1)

**(Total for Question 27 is 2 marks)**



28 (a) AB is a straight line.

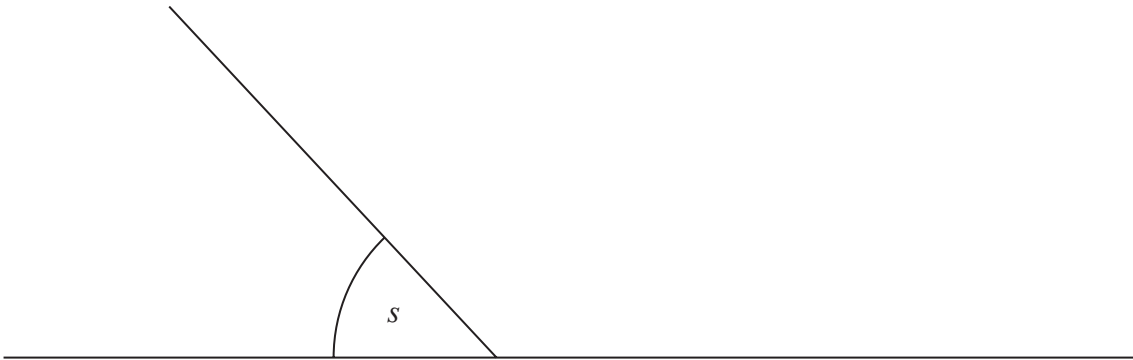
Work out the size of angle  $r$ .



$$r = \dots\dots\dots \text{ }^\circ$$

(1)

(b) Measure the size of angle  $s$ .



$$s = \dots\dots\dots \text{ }^\circ$$

(1)

(Total for Question 28 is 2 marks)



29 (a) Circle the fractions that are less than  $\frac{5}{8}$

$$\frac{1}{2} \quad \frac{1}{4} \quad \frac{3}{4} \quad \frac{11}{16}$$

(1)

(b) Complete these equivalent fractions.

(i)  $\frac{3}{5} = \frac{\boxed{\phantom{000}}}{10}$

(1)

(ii)  $\frac{3}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{12} = \frac{15}{\boxed{\phantom{000}}}$

(2)

(c) Calculate

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

.....  
(1)

(d) Calculate

$$\frac{2}{3} \times \frac{3}{4}$$

.....  
(1)

(Total for Question 29 is 6 marks)



30 Here is a number sequence.

4      7      10      13      16      .....      .....

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

.....  
(1)

(b) The  $n$ th term of this sequence is  $3n + 1$

Find the 25th term of the sequence.

.....  
(1)

(c) Expand and simplify

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

.....  
(2)

(d) Solve

$$6p + 5 = 35$$

$$p = \text{.....}$$

(1)

(Total for Question 30 is 5 marks)



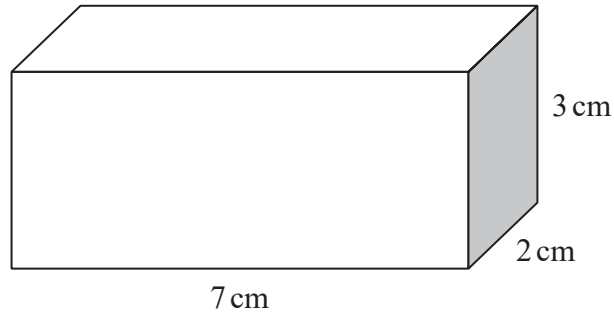


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31 Here is a cuboid.



What is the volume of the cuboid?

..... cm<sup>3</sup>

(Total for Question 31 is 2 marks)

32 Calculate

$$3632 \div 16$$

You must show your working.

.....

(Total for Question 32 is 2 marks)



P 6 9 1 9 7 A 0 1 7 2 4

**33 Calculate**

$$2536 \times 23$$

You must show your working.

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

**34 (a)** There are 360 students in a school.

55% of the students walk to school.

How many students walk to school?

.....  
**(1)**

**(b)** There are 32 000 seats in a sports stadium.

8 000 seats were empty.

What percentage of the seats were empty?

..... %  
**(1)**

**(Total for Question 34 is 2 marks)**



35 Johanna measured the heights of her family.

She recorded them in a list.

180 cm

148 cm

133 cm

174 cm

160 cm

189 cm

154 cm

(a) What is the range of their heights?

..... cm

(1)

(b) What is the median height?

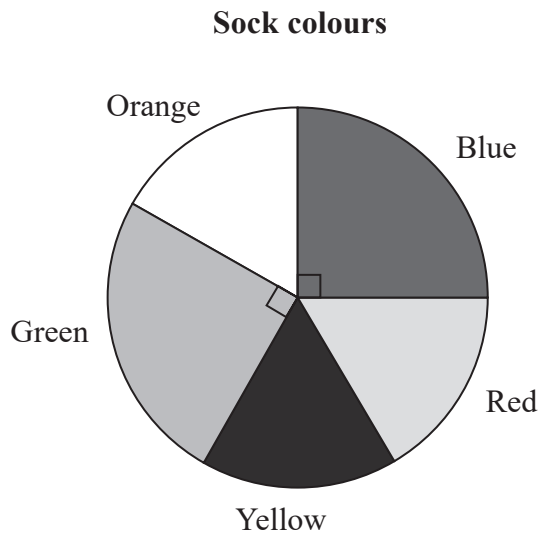
..... cm

(1)

(Total for Question 35 is 2 marks)



36 The pie chart shows the sock colour of the 24 students in Class 6.



Red socks, yellow socks and orange socks were each worn by the same number of students.

How many students wore orange socks?

.....  
(Total for Question 36 is 2 marks)

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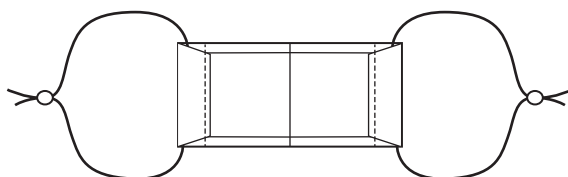
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37 Matilda is making face coverings.

Each face covering requires 3 layers of fabric.

Each layer requires a rectangle of fabric  $20\text{ cm} \times 15\text{ cm}$ .



Fabric comes in  $1\text{ m} \times \frac{1}{2}\text{ m}$  sheets.

Matilda wants to make 20 face coverings.

How many sheets of fabric will she need?

You must show **all** your working.

..... sheets

(Total for Question 37 is 3 marks)

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



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