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			
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.			

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 >





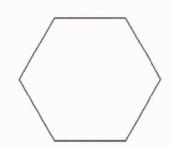
SECTION A

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 \boxtimes and then put a cross in another box \boxtimes .

1 What is the name of this shape?

Polygon with + 5 sides - Pentagon. 6 sides - Hexagon 7 sides - Heptagon 8 sides - Octagon



Quadrilateral - 4 sides.

Hexagon

Octagon

Quadrilateral

Pentagon

×

9.0

(Total for Question 1 is 1 mark)

Which word best describes this set of numbers?

13

39

43

Odd

Even

Square

Prime

X

(Total for Question 2 is 1 mark)

An even number - is a whole number that is able to be divided by two into equal whole numbers. 0, 2, 4, 6, 8.

69 vare number - It is a product of anumber multiplied by 1+521f.

 $1^2 - |x| = 1$

 $2^2 = 2x^2 = 4$

Prime numbers - Are numbers divisible by one and 1tself, eg. 2,3,5,7,11,13,17,19,23,29.

3 What is the range of these weights?

7kg

6kg

2kg

12kg

7kg

5 kg

2 kg

7kg

10kg

12kg

36

×

(Total for Question 3 is 1 mark)

4 What fraction of these shapes are triangles?











Viangles = 5













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

$$\frac{5}{12}$$

$$\frac{7}{12}$$

$$\frac{5}{7}$$

(Total for Question 4 is 1 mark)

5 What is the value of the 8 in this number?



$$12 - 6 \div 3$$

6+3=2 12-2

Addition

9

14

973

(Total for Question 6 is 1 mark)

7 Work out

(Total for Question 7 is 1 mark)

8 What is 68 481 rounded to the nearest thousand?

if thousand consider the hundred digit.

60000

68000

69 000

70 000

100

X

5.0

-0

(Total for Question 8 is 1 mark)

9 Here is a sorting table.

3x1=3 3x2=6	XI=3		Even
3X3 = 9	Multiple of 3	A	В
3×4> 2 3×5= 5 3×6= &	Not a multiple of 3	С	D

but no multiple

Which cell would 16 be in?

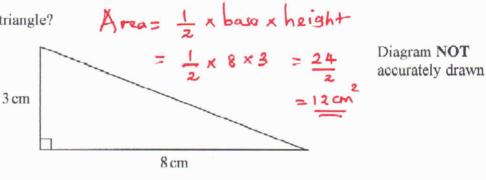
- A
- В

C

- D

(Total for Question 9 is 1 mark)

10 What is the area of this triangle?



- 11 cm²
- 12 cm²
- $22\,\mathrm{cm}^2$
- 24 cm²

- X
- 3 1

(Total for Question 10 is 1 mark)

11 The rule for this number sequence is

het the number bex.

add 2 to the number then double

$$2(x+2) = 10$$

 $2x+4 = 10$

$$x = 10 - 4$$

What is the missing number in this sequence?

$$\frac{2x - 6}{z}$$

$$x = \frac{3}{2}$$

3

6

22

- X

(Total for Question 11 is 1 mark)

12 In a shop a pen costs \$1.39 and a pencil costs \$0.45

How much would it cost to buy one pen and two pencils?

\$1.84

\$2.29

\$3.23

\$3.68

X

10

(Total for Question 12 is 1 mark)

13 Which of these numbers is a multiple of both 3 and 8?

$$3x7=21$$
 $3x1=3$
 $3x8=24$ $3x2=6$
 $2x4=12$

$$3 \times 9 = 27$$
 $3 \times 4 = 12$
 $3 \times 10 = 30$ $3 \times 5 = 16$
 $3 \times 6 = 18$

$$3x11 = 33$$
 $3x12 = 36$

X

(Total for Question 13 is 1 mark)

8×2=16

8X4= 32

8X5=40

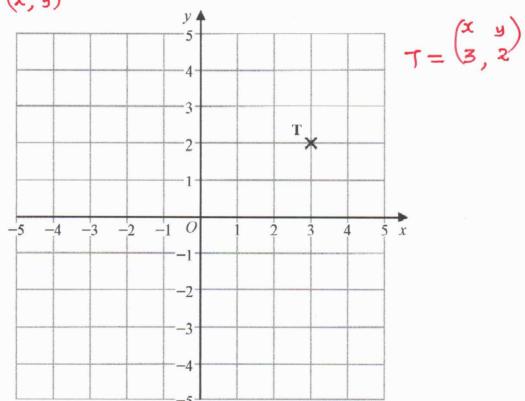
14

Coordinates of (x, y)



are

given Interni



Which one of these best describe point T?

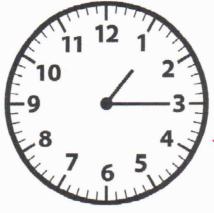
$$x = 3$$

$$y = 2$$

(Total for Question 14 is 1 mark)

15 On Monday afternoon Sanjay looked at the time on his classroom clock.

Here is what he saw.



Time = 1.15 pm

To Convert to 24-hour digital clock add 12

How would the time on this clock be shown on a 24-hour digital clock?

01:15

03:05

13:15

15:05

- 4

X

(Total for Question 15 is 1 mark)

16 Simplify this expression.

$$f + e$$

3fe

f + 3e

5f + 3e

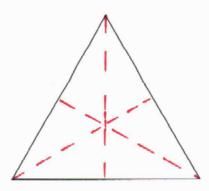
6.5

F. 3

×

(Total for Question 16 is 1 mark)

17 Here is an equilateral triangle.



How many lines of symmetry does it have?

1

3

180

360

X

(Total for Question 17 is 1 mark)

18 120 children each choose a favourite sport.

The results are shown in the pie chart below.

The angle sum in a pie chart is 360. Football Hockey

Running

Cricket Number of children Swimming

How many children chose cricket?

24

30

60

90

X

(Total for Question 18 is 1 mark)

19 Work out

$$\frac{\frac{9}{14} - \frac{4}{7}}{9 - 8} = \frac{14}{14}$$

L.CM 2 14 7 7 7,7 1 1 LCM = 2x7 = 14

 $\frac{1}{14}$

 $\frac{5}{14}$

 $\frac{5}{7}$

 $\frac{13}{14}$

X

8/3

(Total for Question 19 is 1 mark)

20 Work out

$$\frac{9}{45} \times \frac{8}{100} = \frac{45\% \text{ of } 160}{2}$$

16

24

64

72

-

X

(Total for Question 20 is 1 mark)

TOTAL FOR SECTION A IS 20 MARKS

SECTION B

Answer ALL questions.

21 Work out

575

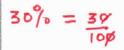
22,191

(Total for Question 21 is 2 marks)

22 Join the equivalent fractions, decimals and percentages.

One has been done for you.

$$\frac{1}{4}x100 = \frac{100}{4}$$
 $= 25\%$



$$\frac{75}{100} = 0.75$$







3.0

(Total for Question 22 is 2 marks)

23 This tally chart shows the favourite colours of the students in Jai's class.

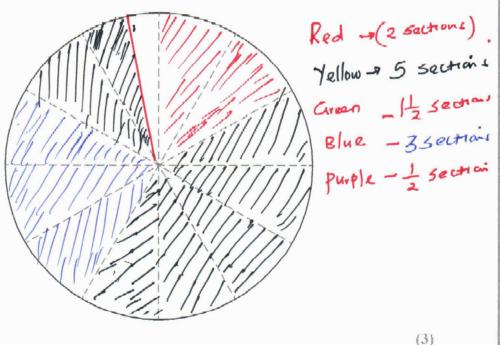
Colour	Tally	Total
Red		4
Yellow	HH HH	10
Green		3
Blue	America (Constant)	6
Purple		-

(a) Complete the tally chart.

(2)

(b) Use the information from the tally chart to complete this pie chart.

Favourite colours



(Total for Question 23 is 5 marks)

24 Lenny has \$180

He shares it with his brother in the ratio 2:1

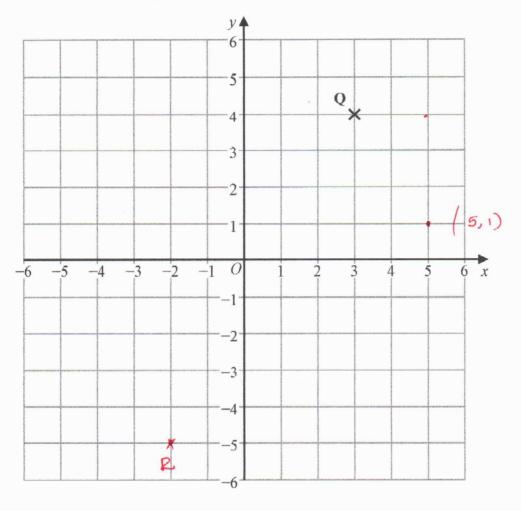
Lenny gets the most money.

How much money does Lenny get?

Lanny =
$$\frac{2}{3} \times 180 = \frac{360}{3} = 120$$

(Total for Question 24 is 2 marks)

25 Point Q has been plotted on this grid.



(a) Translate point Q by 2 squares right and 3 squares down.

What are its new coordinates?

(1)

(1)

(b) On the grid, plot point R with the coordinates (-2, -5).

begin with X then y co-admates.

(Total for Question 25 is 2 marks)

26 Here is a triangle inside a rectangle.

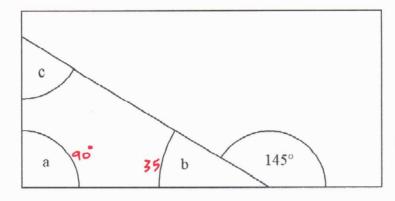


Diagram **NOT** accurately drawn

70 +35 +C= 180 125 +C= 180-125 C= 180-125

Work out the size of each of the labelled angles.

(Total for Question 26 is 3 marks)

27 Calculate

$$2301 \times 27$$

You must show your working.

62127

(Total for Question 27 is 2 marks)

28 (a) Expand

$$5(3x + y)$$
 $5(3x + y)$
 $5 \times 3x + 5 \times y$
 $15x + 5y$

15x+54

(b) Solve the equation

$$4x + 6 = 22$$
 $4x + 6 = 22$
 $4x + 6 = 22$
 $4x = 22 - 6$
 $4x = 16$
 $4x = 4$
 $4x = 4$

x = (1)

(c) Find the value of the expression

$$3a - 4b + c$$

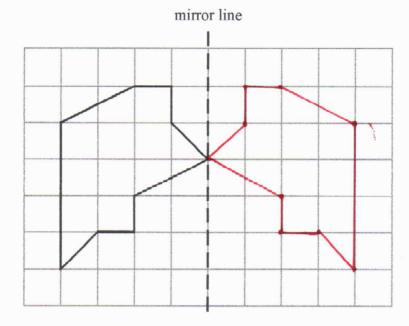
when a = 5, b = 3 and c = 7

Substitute Values given 3a - 4b + C 3(5) - 4(3) + 7 15 - 12 + 7 (15 + 7) - 12 = 22 - 12

(2)

(Total for Question 28 is 4 marks)

29 (a) Reflect the shape on the grid in the mirror line.



(1)

(b) What is the volume of this cuboid?

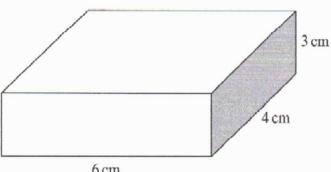


Diagram NOT accurately drawn

Volume = L x W x h = 6 x 4 x 3 = 72 cm³

(2) cm

(Total for Question 29 is 3 marks)

30 Write these numbers in order of size.

Start with the smallest.

0.4

0.44

0.4

+.04

smallest

(Total for Question 30 is 1 mark)

31 (a) Write this improper fraction as a mixed number fraction.

$$\frac{14}{3} = 3 \underbrace{\frac{4}{12}}_{12}$$

$$= 4 \underbrace{\frac{2}{3}}_{2}$$

43

(1)

(b) Write this mixed number fraction as an improper fraction.

$$2\frac{5}{8} = (2 \times 8) + 5$$

$$= (6 + 5)$$

$$= 21^{8}$$

$$= 21$$

$$= 21$$

21

(1)

(Total for Question 31 is 2 marks)

32 Saira's English group did a spelling test. Here are their results.

Median is the Middle value of data arranged inorder.

13

10

13

12

(a) What is the median of these results?

Arrange the data in order from smalles to Largest.

12

(1)

(1)

13

(b) What is the mean of these results?

Mean = Total data

Number of Yasults.

= 13 + 9 + 10 + 13 + 12 + 7 + 13= $\frac{77}{2} = 11$ (Total for

11

(Total for Question 32 is 2 marks)

33 Calculate

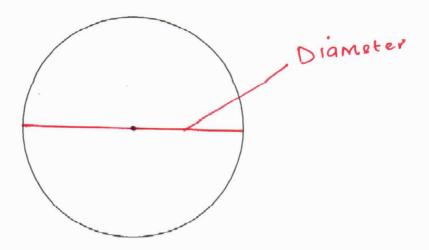
 $3168 \div 18$

You must show your working.

176

(Total for Question 33 is 2 marks)

34 Here is a circle with the centre marked.



(a) Draw and label the diameter on the circle.

(1)

(b) How long is the radius of this circle?

(Total for Question 34 is 2 marks)

35 Melinda is 168.4 cm tall.

Her sister is 0.4 m shorter than she is.

Their brother is 75% of Melinda's height.

(a) How tall is Melinda's sister?

$$\frac{168.40}{-40.00} = 128.41$$

(b) How tall is Melinda's brother?

$$\frac{45^{3}}{45^{5}} \times 168^{4} = \frac{25052}{4}$$

$$\frac{3 \times 168 \cdot 4}{4} = \frac{5052}{4}$$

1684 × 3 5052



36 Sadio needs to buy

1 Pineapple6 Strawberries3 Oranges



Pineapple \$3.25 each



Strawberries \$0.45 each



Oranges \$1.69 each

He has \$11

Does he have enough money to buy the fruit? You must show your working.

| Pineapple = 3.25
6 Straw borries =
$$(0.45 \times 6)$$
 = 2.70
 $\times \frac{45}{6}$
 $= 2.70$
 $\times \frac{45}{6}$
 $= 2.70$
3 Oranges = $1.69 \times 3 = 5.07$
 $= 5.07$ No,

Total cost =
$$3.25$$

+ 2.70
+ 5.07

No, she does not have enough Money. She is \$0.02 Less than the total cost of fruits.

(Total for Question 36 is 3 marks)

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

