

Answer ALL TWENTY FOUR questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1

10	15	23	25	27	28	33	35
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(a) From the numbers in the box, write down

(i) an even number

.....

(ii) a multiple of 9

.....

(iii) a prime number

.....

(3)

Here are four cards.

Each card has a number on it.

The four cards are arranged to make the number 7358



(b) (i) Show how the four cards can be arranged to make the smallest number using all four cards.



(ii) Show how the four cards can be arranged to make a correct calculation below.

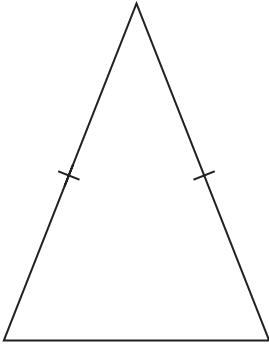
$$\square \square + \square \square = 95$$

(2)

(Total for Question 1 is 5 marks)



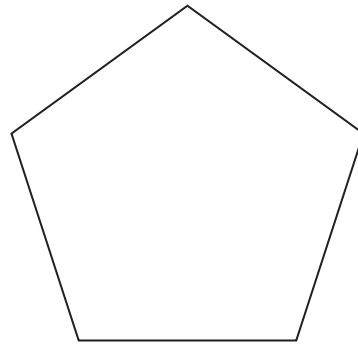
2 Here are three shapes.



A



B



C

Shape **A** is a triangle.

(a) Write down the mathematical name for this type of triangle.

.....
(1)

Shape **B** is a rectangle.

(b) On shape **B**, draw its lines of symmetry.

(1)

Shape **C** is a regular polygon.

(c) Write down the order of rotational symmetry of shape **C**.

.....
(1)

(Total for Question 2 is 3 marks)



- 3 (a) Change 6 metres into centimetres.

..... centimetres
(1)

- (b) Change 4500 grams into kilograms.

..... kilograms
(1)

Lauren has 3 litres of fruit juice.

She is going to use the fruit juice to make some drinks for a party.

Each cup of drink will contain 225 millilitres of fruit juice.

Lauren is going to make as many cups of drink as possible.




- (c) Work out how much fruit juice Lauren has left when she has made as many cups of drink as possible.
Give your answer in millilitres.

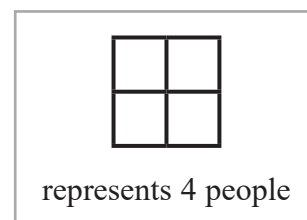
..... millilitres
(4)

(Total for Question 3 is 6 marks)



- 4 40 people were asked to name their favourite type of holiday.
The pictogram gives information about the number of these people who said each of City Break or Beach or Walking.

City Break	
Beach	
Walking	
Cruise	
Skiing	



- (a) How many of these people said Beach?

.....
(1)

4 people said Cruise.
9 people said Skiing.

- (b) Show this information on the pictogram.

(2)

One person from the 40 people asked is selected at random.

- (c) Find the probability that this person said City Break.

.....
(2)

(Total for Question 4 is 5 marks)



5 Here are the first 4 terms of a number sequence.

7 12 17 22

(a) (i) Write down the next term of the sequence.

.....
(1)

(ii) Explain how you worked out your answer.

.....
(1)

(b) Is 256 a number in the sequence?

Tick one of the boxes below and give a reason for your answer.

Yes

No

Give a reason for your answer.

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

(Total for Question 5 is 3 marks)



- 6 (a) Write these numbers in order of size.
Start with the smallest number.

0.47 0.4 0.74 0.477 0.407

(1)

- (b) Write 0.7 as a fraction.

(1)

- (c) Write 30 as a fraction of 48
Give your fraction in its simplest form.

(2)

- (d) Write 23% as a decimal.

(1)



Rita has some beads in a bag.

Of these beads, Rita gives

$$\frac{1}{2} \text{ to Sheng}$$

$$\text{and } \frac{2}{5} \text{ to Tusco}$$

Rita now has 3 beads left in the bag.

(e) Work out how many beads Rita originally had in the bag.

.....
(3)

(Total for Question 6 is 8 marks)

7 (a) Simplify $3c + 5d - c + 2d$

.....
(2)

(b) Simplify $8e \times 5f$

.....
(1)

(c) Solve $5r - 3 = 8$

$r =$
(2)

(Total for Question 7 is 5 marks)



8 ABC is a straight line and BCD is a triangle.

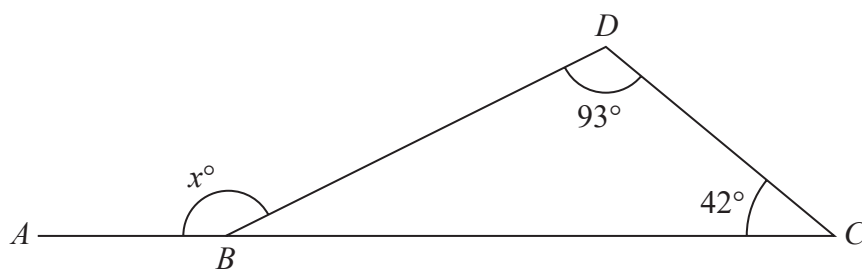


Diagram **NOT** accurately drawn

(a) Work out the value of x

$x = \dots\dots\dots$
(2)

PO , RO , SO and TO are four straight lines.

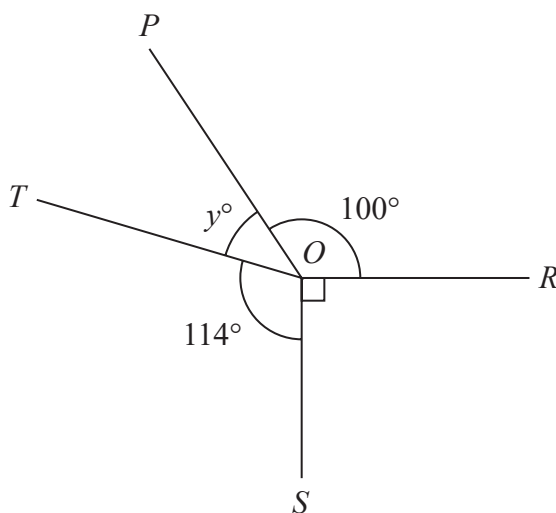


Diagram **NOT** accurately drawn

(b) (i) Work out the value of y

$y = \dots\dots\dots$
(2)

(ii) Give a reason for your answer.

(1)

(Total for Question 8 is 5 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

