

Answer ALL TWENTY FIVE questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Here is a list of numbers.

2 8 14 15 16 18 20

From this list, write down

(a) the odd number

.....
(1)

(b) the multiple of 6

.....
(1)

(c) the square number

.....
(1)

(d) the prime number

.....
(1)

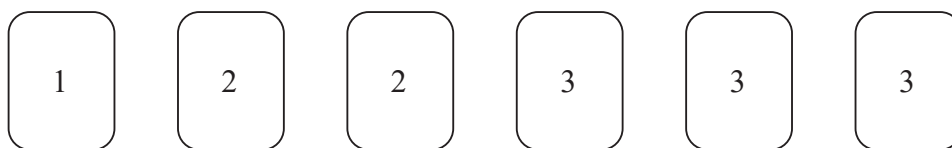
(e) two numbers with a sum of 26

.....
(1)

(Total for Question 1 is 5 marks)



- 2 Here are 6 counters.
Each counter has a number on it.



Finn takes at random one of these counters.

- (i) Select with a tick (✓) the word that best describes the likelihood that Finn takes a counter with the number 2 on it.

impossible	unlikely	evens	likely	certain

- (ii) Select with a tick (✓) the word that best describes the likelihood that Finn takes a counter with the number 3 on it.

impossible	unlikely	evens	likely	certain

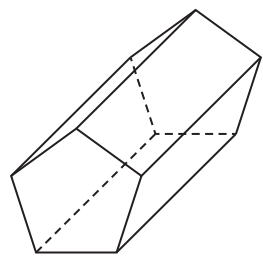
- (iii) Select with a tick (✓) the word that best describes the likelihood that Finn takes a counter with a number greater than 4 on it.

impossible	unlikely	evens	likely	certain

(Total for Question 2 is 3 marks)



3 (a) Write down the mathematical name of this 3-D shape.



..... (1)

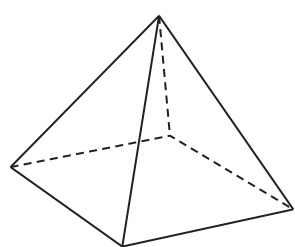
(b) (i) How many faces does this shape have?

..... (1)

(ii) How many vertices does this shape have?

..... (1)

Here is a different 3-D shape.



Marie makes a model of the shape.
She uses a length of wire to make each edge of the model.
Each edge of the model is 5 cm long.

Marie has 70 cm of wire.

(c) What length of wire does she have left after making the model?

..... cm
(2)

(Total for Question 3 is 5 marks)



4 (a) Simplify $10y - y$

.....
(1)

(b) Simplify $3p \times 4p$

.....
(1)

(c) Solve $7x = 42$

$x =$
(1)

(d) Solve $n + 6 = 5$

$n =$
(1)

(e) Simplify $8c + 5d - 2c - 3d$

.....
(2)

(Total for Question 4 is 6 marks)



- 5 Zoya buys a book and some pencils.

The book costs £6.90

Each pencil costs £0.55

Zoya has a total of £15 to spend on the book and the pencils.

She buys as many pencils as she can.

Work out how many pencils she buys.

.....
(Total for Question 5 is 3 marks)

- 6 (a) Write down all the factors of 10

.....
(1)

- (b) Find the lowest common multiple (LCM) of 18 and 60

.....
(2)

(Total for Question 6 is 3 marks)



- 7 (a) Write these decimals in order of size.
Start with the smallest decimal.

0.5 0.54 0.45 0.504 0.405

.....
(1)

- (b) Write 0.08 as a percentage.

.....%

(1)

- (c) Write $\frac{31}{9}$ as a mixed number.

.....
(1)

- (d) Find the number that is exactly halfway between $\frac{7}{25}$ and 0.88

.....
(2)

(Total for Question 7 is 5 marks)



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8 The two-way table shows some information about the desserts chosen at lunch yesterday by the 80 students from Year 5 and Year 6.
Each student chose one dessert from apple pie or fruit or ice cream.

	apple pie	fruit	ice cream	Total
Year 5	22	6		
Year 6			2	44
Total	56			80

(a) Complete the two-way table.

(3)

(b) What fraction of these 80 students were in Year 5 **and** chose apple pie?
Give your answer in its simplest form.

.....
(2)

(Total for Question 8 is 5 marks)



P 7 2 4 3 6 A 0 9 2 4

9

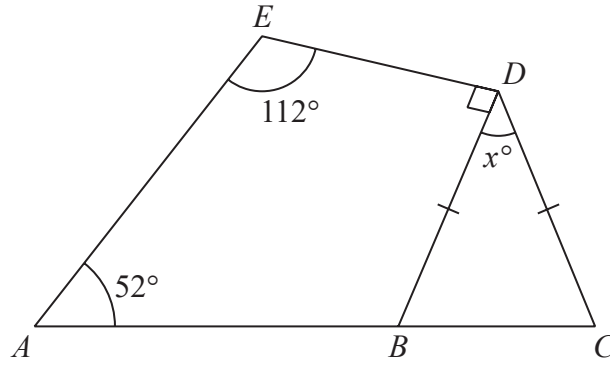


Diagram NOT accurately drawn

BCD is an isosceles triangle with $BD = CD$
ABC is a straight line.
ABDE is a quadrilateral.

Work out the value of x
Give a reason for each stage of your working.

$x = \dots\dots\dots$

(Total for Question 9 is 4 marks)

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