

DO NOT WRITE IN THIS AREA

Answer ALL TWENTY questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1

16	19	24	27	42
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From the numbers in the box, write down

(i) the multiple of 7

.....

(ii) the factor of 72

.....

(iii) the square number

.....

(iv) the cube number

.....

(v) the prime number.

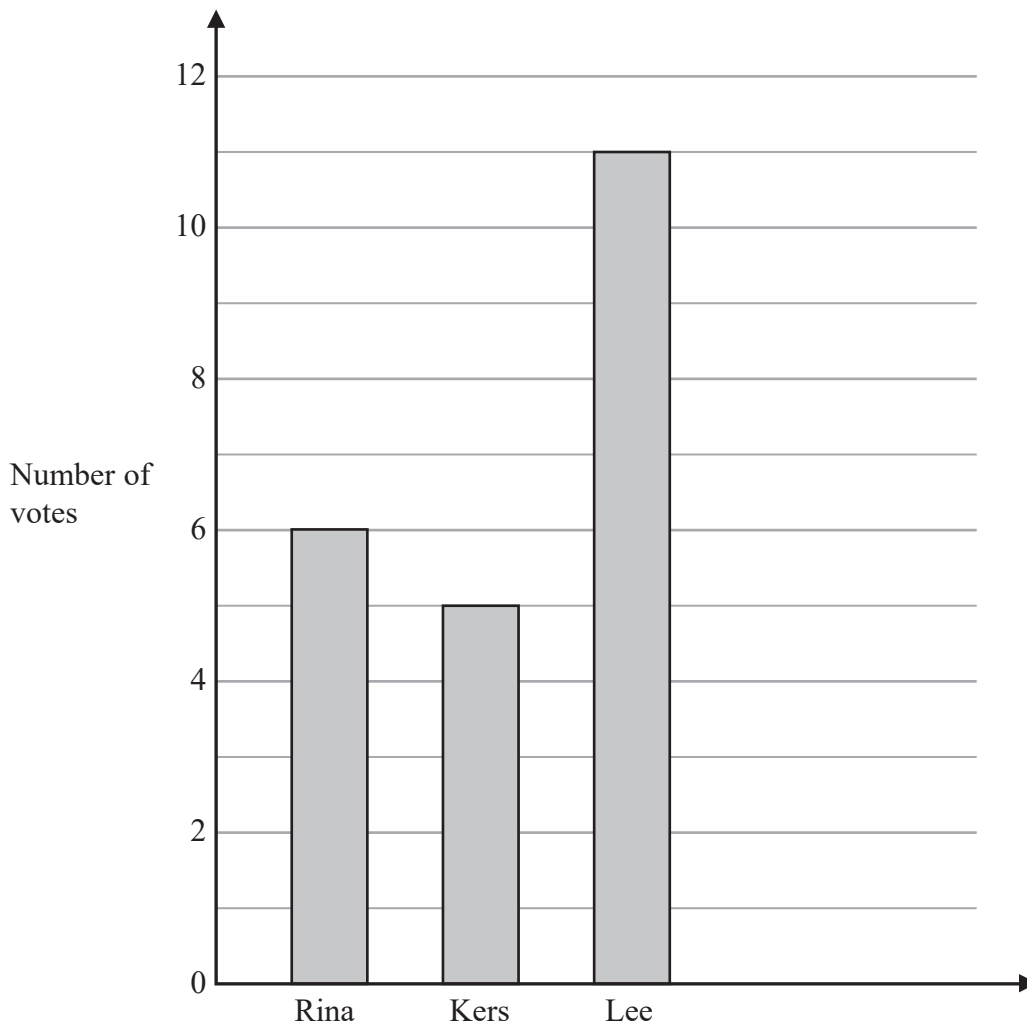
.....

(Total for Question 1 is 5 marks)



- 2 The students in a class voted for a representative for the School Council. There were four candidates, Rina, Kers, Lee and Jing.

The bar chart shows information about the number of votes for Rina, for Kers and for Lee.



- (a) Write down the number of votes for Kers.

.....  
(1)

There were 9 votes for Jing.

- (b) Show this information on the bar chart.




(1)

- (c) Work out the total number of votes.

.....  
(2)



The pictogram has been drawn using the information shown on the bar chart.

<b>Rina</b>	
<b>Kers</b>	
<b>Lee</b>	
<b>Jing</b>	

There were 9 votes for Jing.

(d) Show this information on the pictogram.

(2)

(Total for Question 2 is 6 marks)



3 (a) On the dotted line, write the number so that the two fractions are equivalent.

$$\frac{40}{100} = \frac{\dots\dots\dots}{25}$$

.....  
(1)

(b) Write  $\frac{11}{4}$  as a mixed number.

.....  
(1)

(c) Write  $\frac{6}{20}$  as a percentage.

..... %  
(1)

(d) Write  $\frac{18}{100}$  as a decimal.

.....  
(1)

(e) Work out  $\frac{5}{9}$  of 72

.....  
(2)

(Total for Question 3 is 6 marks)



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

96    90    84    78    72

(a) Write down the 6th term of the sequence.

.....  
(1)

(b) Explain how you found your answer to part (a).

.....  
(1)

The 15th term of the sequence is 12

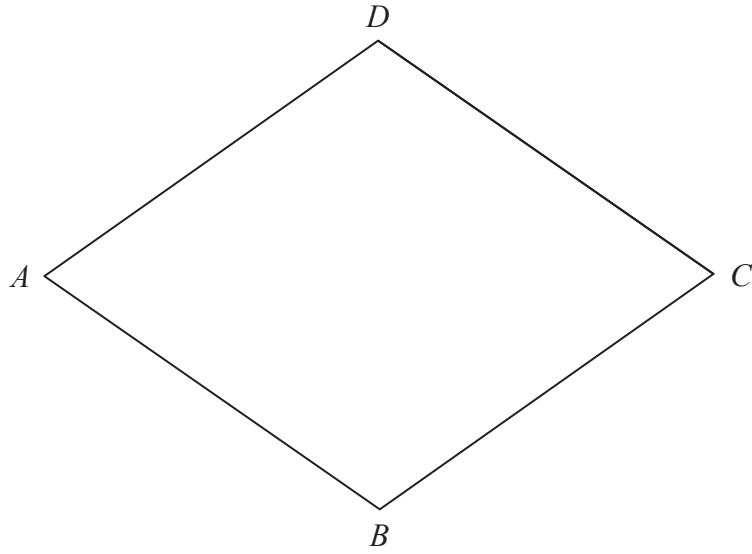
(c) Work out the 14th term of the sequence.

.....  
(1)

**(Total for Question 4 is 3 marks)**



5 The diagram shows a rhombus  $ABCD$ .



(a) Measure the length of  $AB$ .

..... cm  
(1)

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

..... °  
(1)

(c) On the diagram, draw the lines of symmetry of the rhombus.

(2)

(d) Write down the order of rotational symmetry of the rhombus.

.....  
(1)

(Total for Question 5 is 5 marks)



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6 Potatoes cost 1.20 euros per kilogram.

(a) Work out the cost of 5 kilograms of potatoes.

..... euros  
(1)

Courgettes cost 2.55 euros per kilogram.

(b) Work out the cost of 0.6 kilograms of courgettes.

..... euros  
(1)

Carrots cost 0.84 euros per kilogram.

Onions cost 0.92 euros per kilogram.

Anna buys 500 grams of carrots and 750 grams of onions.  
She pays with a 5 euro note.

(c) Work out how much change Anna should receive.

..... euros  
(3)

(Total for Question 6 is 5 marks)

