

- 9 The table shows information about the number of pieces of homework each student in Year 11 received last week.

Number of pieces of homework	Frequency
3	4
4	8
5	10
6	12
7	4

- (a) Work out the range of the number of pieces of homework.

.....  
(2)

- (b) Write down the mode of the number of pieces of homework.

.....  
(1)

- (c) Work out the mean number of pieces of homework.  
Give your answer correct to one decimal place.

.....  
(3)

(Total for Question 9 is 6 marks)



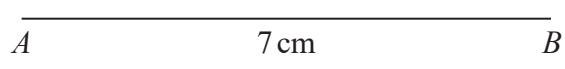
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- 10  $ABC$  is a triangle.  
 $AB = 7$  cm and  $BC = 6.2$  cm  
Angle  $ABC = 65^\circ$

Draw accurately the triangle  $ABC$ .  
The line  $AB$  has been drawn for you.



(Total for Question 10 is 2 marks)

- 11 A circle has radius 7.5 cm

Work out the area of the circle.  
Give your answer correct to 3 significant figures.

..... cm<sup>2</sup>

(Total for Question 11 is 2 marks)



- 12 This formula can be used to work out the cost, in riyals, of hiring a bicycle in Qatar for a number of days.

$$\text{Cost} = 65 \times \text{number of days} + 44$$

Ghalia hired a bicycle in Qatar for 14 days.

- (a) Work out the cost.

..... riyals  
(2)

This formula can be used to work out the cost, in riyals, of hiring a helmet in Qatar for a number of days.

$$\text{Cost} = 12.5 \times \text{number of days}$$

Kasun wants to hire a bicycle and a helmet for the same number of days.

He wants to hire them for as many days as he can.

He has 750 riyals to spend.

- (b) Work out how much of the 750 riyals is not spent.

..... riyals  
(4)

(Total for Question 12 is 6 marks)



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13 There are some counters in a bag.

7 of the counters are blue.

5 of the counters are green.

The rest of the counters are yellow.

One counter is going to be taken at random from the bag.

The probability that the counter is blue or is green is  $\frac{6}{13}$

Work out how many yellow counters there are in the bag.

.....  
(Total for Question 13 is 3 marks)



14 (a) Work out 39% of 450

.....  
(2)

(b) Write one pair of brackets in this calculation so that the answer is correct.

$$9 \times 8 - 5 - 2 = 25$$

(1)

(c) Work out the value of  $\frac{\sqrt{8.9}}{6.2 - 3.5}$

Give your answer as a decimal.

Write down all the figures on your calculator display.

.....  
(2)

**(Total for Question 14 is 5 marks)**

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15 Write 600 as a product of powers of its prime factors.  
Show your working clearly.

.....  
(Total for Question 15 is 3 marks)



16 Show that  $2\frac{4}{7} \div 1\frac{1}{8} = 2\frac{2}{7}$

(Total for Question 16 is 3 marks)

17 The bearing of Paris from London is  $149^\circ$   
Work out the bearing of London from Paris.

(Total for Question 17 is 2 marks)

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