

GCSE MATHEMATICS


Topic tests - Foundation tier- Probability and statistics

Name _____



1 The pictogram shows what people did when they went to a gym.



Key  represents _____ people

1 (a) 20 people did Dancing.

Complete the key for the pictogram.

[1 mark]

1 (b) Altogether, how many people went to the gym?

[3 marks]

Answer _____

2 (a) Use a suitable word from the list to complete each sentence.

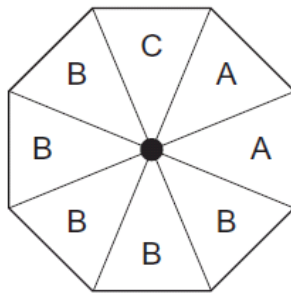
[2 marks]

impossible unlikely evens likely certain

Rolling a 7 on a fair ordinary dice is _____

Rolling a 6 on a fair ordinary dice is _____

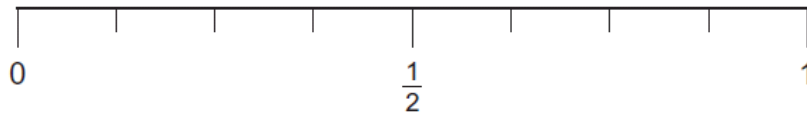
2 (c) A fair spinner has eight equal sections.



Put arrows on the scale to show the probability of landing on each letter.

Label each arrow with the correct letter.

[3 marks]



3 Here are nine numbers.

23 25 23 31 20 25 21 24 25

3 (a) Work out the median.

[2 marks]

Answer _____

3 (b) Write down the mode.

[1 mark]

Answer _____

4 Sweets come in four flavours.

Flavour	Lime	Orange	Melon	Cherry
Probability	0.2	0.15	0.3	

4 (a) What is the probability that a sweet is **cherry** flavour?

[2 marks]

Answer _____

4 (b) What is the probability that a sweet is **lime** or **melon** flavour?

[1 mark]

Answer _____

4 (c) There are 200 sweets altogether.

How many are **orange** flavour?

[2 marks]

Answer _____

5 Chris recorded the number of runs he scored in five cricket matches.

21 20 29 22 24

5 (a) Calculate the mean.
Give your answer to the nearest whole number.

[4 marks]

Answer _____

5 (b) Calculate the range.

[1 mark]

Answer _____

6 The pay of 100 students with Saturday jobs was recorded.

Pay (£ x)	Number of students
$0 < x \leq 10$	2
$10 < x \leq 20$	44
$20 < x \leq 30$	41
$30 < x \leq 40$	1
$40 < x \leq 50$	2
$50 < x \leq 60$	4
$60 < x \leq 100$	6
	Total = 100

6 (a) How many were paid more than £30?

[1 mark]

Answer _____

6 (b) How many were paid £5 or less?

Circle your answer.

[1 mark]

0 1 2 Cannot tell

6 (c) Work out the class interval that contains the median.

[1 mark]

Answer _____ $< x \leq$ _____

END OF QUESTIONS

Copyright © 2014 AQA and its licensors. All rights reserved.