



# Maths-it Podcast F-22

Foundation GCSE Revision

## Data collection

### Topics

Tallying – Two way tables – Questionnaires

### Questions

1. Zakk carried out a survey of his friends' favourite sport.

Here are his results.

Football	Football	Rugby	Rock Climbing	Cricket
Football	Football	Football	Rugby	Football
Rugby	Rock Climbing	Cricket	Cricket	Football
Cricket	Cricket	Football	Cricket	Football
Football	Cricket	Football	Football	Football
Football	Rugby	Rugby	Football	Rugby

- (a) Complete the table to show Zakk's results.

Sport	Tally	Frequency
Football		
Cricket		
Rugby		
Rock Climbing		

(3)

- (b) Write down the number of Zakk's friends whose favourite sport was Rugby.

.....

(1)

- (c) Which was the favourite sport of most of Zakk's friends?

.....

(1)

(Total 5 marks)



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2. The chart shows the shortest distances, in kilometres, between pairs of cities. For example, the shortest distance between London and Manchester is 300 km.

<b>London</b>				
196	<b>Nottingham</b>			
300	101	<b>Manchester</b>		
325	158	56	<b>Liverpool</b>	
639	446	346	348	<b>Glasgow</b>

- (a) Write down the shortest distance between **Nottingham** and **Liverpool**.

..... km

(1)

Jason drives from London to Manchester by the shortest route. He has driven 137 km.

- (b) Work out how many more kilometres he must drive.

..... km

(2)

- (c) Write down the names of the two cities which are the **least** distance apart.

..... and .....

(1)

(Total 4 marks)

3. The members of a particular Gym can choose from three different membership packages, Gold, Silver and Bronze.

The manager wants to show how many male and how many female members choose each package.

- (a) Draw a two-way table the manager could use to show this information.

(2)

23 male members choose the gold package.

- (b) Write the number 23 in the correct place in your two-way table.

(1)

(Total 3 marks)



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4. The manager of a school canteen has made some changes. She wants to find out what students think of these changes.

She uses this question on a questionnaire.

"The new changes make the canteen much better, don't you think?"

Yes

No

Not  
sure

- (a) Write down what is wrong about this question.

.....  
.....  
.....

(1)

This is another question on the questionnaire.

"How much money do you normally spend in the canteen?"

£1 - £2

£2 - £3

£3 - £4

- (b) Write down one thing that is wrong with this question.

.....  
.....  
.....

(1)

(Total 2 marks)

5. Mrs Fitt is going to carry out a survey of the sports students would like to do at extra-curricular clubs.

In the space below, write a question that she could use. You should include tick boxes.

(Total 3 marks)