



# FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 1

## Data Tables

### Materials

- You **cannot** use a calculator for **questions** with this symbol.



### Instructions

- Answer **all** questions.
- Answer questions on separate paper.

### Information and Advice

- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.

**Q1** Below is a mileage chart, showing distances (in miles) between 4 cities.

<b>York</b>			
25	<b>Leeds</b>		
42	11	<b>Bradford</b>	
57	36	44	<b>Sheffield</b>

- 1(a)** What is the distance between Leeds and Sheffield? **[1 mark]**
- 1(b)** Alex drives from Leeds to Bradford and then to York. How far has he driven? **[2 marks]**
- 1(c)** What is the shortest distance between two cities? And which cities are these? **[2 marks]**

**Q2** Lauren records her colleagues' journey times to get into work. She records this information in the tally chart below.

Time (minutes)	Tally
0 – 10	
11 – 20	
21 – 30	
31 – 40	
More than 40	

- 2(a)** After she makes the tally chart, 3 more colleagues come to work, their journey times are: 48 minutes, 52 minutes and 26 minutes. Add these extra 3 colleagues to the tally chart and complete the frequency column. **[3 marks]**
- 2(b)** How many colleagues' journey times did she record in total? **[2 marks]**
- 2(c)** How many colleagues took between 11 and 20 minutes to get to work? **[1 mark]**

**Q3** Charlie is organising a company meal at an Italian restaurant and wants to know what his 7 colleagues are going to order.

There are 3 options: pizza, pasta and steak.

Design a table to show each colleagues' preference and the total number of people that choose each option.

[3 marks]

**Q4** Chelsea asks her classmates how long it took them to complete their maths homework.

She records this information in the tally chart below.

Time (minutes)	Tally	Frequency
0 – 15		
16 – 30		
31 – 45		
46 – 60		
More than 60		

**4(a)** Complete the frequency column.

[2 marks]

**4(b)** How many classmates did she ask?

[2 marks]

**4(c)** How many classmates took between 46 and 60 minutes to complete the homework?

[1 mark]



**Q5** Juan asks his classmates what their favourite sport is.

Their choices are:

football football golf rugby rugby rugby football hockey football hockey  
netball football tennis football football rugby tennis netball hockey  
rugby football rugby football football hockey football netball

**5(a)** Represent this information in a frequency table.

**[3 marks]**

**5(b)** How many students are there in Juan's class?

**[1 mark]**



**Q6** The tally chart below shows peoples' favourite dessert.

Dessert	Tally
Sticky Toffee Pudding	
Chocolate Brownie	
Ice Cream	
Treacle Tart	
Cheesecake	

**6(a)** How many people said that chocolate brownie was their favourite dessert?

**[1 mark]**

**6(b)** How many more people said that ice cream was their favourite dessert in comparison with treacle tart?

**[2 marks]**

**6(c)** How many people were asked in total?

**[2 marks]**

**Q7** Below is a milage chart showing the distances between 5 towns in miles.

	<b>Easingwold</b>	<b>Pickering</b>	<b>Ripon</b>	<b>Selby</b>	<b>Tadcaster</b>
<b>Easingwold</b>		25	17	31	21
<b>Pickering</b>	25		39	40	38
<b>Ripon</b>	17	39		43	26
<b>Selby</b>	31	40	43		15
<b>Tadcaster</b>	21	38	26	15	

**7(a)** What is the distance between Pickering and Tadcaster?

[1 mark]

**7(b)** What is the distance between Selby and Easingwold?

[1 mark]

**7(c)** Which two towns are the furthest away?

[1 mark]

**7(d)** Which two towns are the closest?

[1 mark]

**7(e)** Kyle is travelling from Tadcaster to Selby to Pickering, how far has he travelled in total?

[2 marks]