FUNCTIONAL SKILLS MATHEMATICS

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

Entry Level 3

Tally Charts

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   Tobias has asked his classmates what their favourite fruit is.

He records this information in a tally chart.

Age	Tally	Frequency
Apple	‖‖||	
Orange	||||	
Pineapple	‖‖||||	
Banana	‖‖ ‖‖ |||	
Kiwi	|||	

1(a)   How many of Tobias' classmates chose banana as their favourite fruit?

[1 mark]

1(b)   Complete the frequency column.

[2 marks]

Q2   Martha has recorded the ages of people on her flight.

She has put this information in a tally chart, shown below.

Age (years)	Tally	Frequency
$0 - 10$	‖‖ ‖‖||||	
$11 - 18$	‖‖ ‖‖ ‖‖||||	
$19 - 35$	‖‖ ‖‖||	
$36 - 60$	‖‖ ‖‖ ‖‖ ‖‖|	
$60 +$	‖‖|||	

2(a)   How many people on the flight were aged between 36 and 60?

[1 mark]

2(b)   Complete the frequency column.

[2 marks]

2(c)   How many people were on the flight in total?

[2 marks]

8

Q3 Nicola is counting the different colour cars she sees whilst she is on a bus.

She sees these colours of car:

silver black white blue silver blue red red blue silver red silver white white white
red blue black black red silver red silver black blue white white black black
black blue red black black white white silver black black silver white

3(a) Create and populate a frequency table for this data.

[3 marks]

3(b) How many cars did she pass in total?

[2 marks]

Q4 Lauren records her colleagues' journey times to get into work.

She records this information in the tally chart below.

Time (minutes)	Tally	Frequency
0 − 10	||||	
11 − 20	⦀⦀ ||||	
21 − 30	⦀⦀ |||	
31 − 40	⦀⦀ ||	
More than 40	|||	

4(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]

4(b) How many colleagues' journey times did she record in total?

[2 marks]

4(c) How many colleagues took between 11 and 20 minutes to get to work?

[1 mark]

Turn over ►

Q5 Pep asks his friends which football teams they support.

He records his findings in a tally chart, shown below.

Team	Tally	Frequency
Liverpool	卌 卌 ||||	
Manchester United	卌 ||||	
Chelsea	卌 |||	
Manchester City			
Arsenal	|||	

5(a) How many of Pep's friends support Manchester United?

[1 mark]

5(b) How many more of Pep's friends support Chelsea compared to Arsenal?

[2 marks]

5(c) Complete the frequency column on Pep's tally chart.

[2 marks]

Q6 Jenifer asks her classmates what their favourite takeaway is.

Here are their choices:

pizza Indian pizza Chinese fish and chips pizza Thai pizza Indian Indian
Indian Chinese Chinese Indian pizza Chinese fish and chips fish and chips
Thai Chinese pizza pizza Indian fish and chips fish and chips Thai Indian
fish and chips pizza

6(a) Display this information in a frequency table.

[3 marks]

6(b) How many people did Jenifer ask?

[1 mark]