Frequency Table - Worksheet

Skill

Group A - categorical data

Complete the frequency table

1) red green red blue green

green blue blue green blue

Colours	Tally	Frequency
Red		
Blue		
Green		

2) green red blue red blue

white green red blue green

red green white green blue

Colours	Tally	Frequency
Red		
Blue		
Green		
White		

3) yellow red blue yellow blue

white blue red red green

red white red green blue

yellow blue red blue yellow

Colours	Tally	Frequency
Red		
Blue		
Green		
White		
Yellow		

Group B - numerical data

Complete the frequency table

1) 1 3 2 3 2

2 1 1 3 3

Numbers	Tally	Frequency
1		
2		
3		

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Frequency Table - Worksheet

2) 4 3 4 3 2
2 3 2 3 4
1 3 4 2 1

Numbers	Tally	Frequency
1		
2		
3		
4		

3) 4 3 0 3 0
4 1 1 0 2
3 3 4 3 4
1 2 4 2 1

Numbers	Tally	Frequency
0		
1		
2		
3		
4		

Group C - grouped discrete data

Complete the grouped frequency table

1) 0 1 14 2 5
9 10 3 7 14

Numbers	Tally	Frequency
0 to 4		
5 to 9		
10 to 14		

2) 12 16 11 7 11
15 1 17 12 5
8 10 3 16 14

Numbers	Tally	Frequency
0 to 4		
5 to 9		
10 to 14		
15 to 19		

3) 14 23 7 4 10
22 15 13 3 11
18 19 15 2 4
8 11 13 20 19

Numbers	Tally	Frequency
0 to 4		
5 to 9		
10 to 14		
15 to 19		
20 to 24		

Frequency Table - Worksheet

Group D - grouped data continuous

Complete the grouped frequency table

1) 18.3 19.4 25.1 2.7 4.6

8.6 11.0 13.6 20.6 19.2

Numbers	Tally	Frequency
0 ≤ x < 10		
10 ≤ x < 20		
20 ≤ x < 30		

2) 31.3 26.4 25.1 2.7 4.6

17.3 12.7 15.8 25.4 9.2

32.5 14.0 11.5 22.9 3.2

Numbers	Tally	Frequency
0 ≤ x < 10		
10 ≤ x < 20		
20 ≤ x < 30		
30 ≤ x < 40		

3) 14.3 23.7 35.8 15.4 6.2

28.3 33.4 16.7 2.9 14.6

23.6 31.0 43.6 20.6 19.2

49.5 14.0 41.5 27.9 43.2

Numbers	Tally	Frequency
0 ≤ x < 10		
10 ≤ x < 20		
20 ≤ x < 30		
30 ≤ x < 40		
40 ≤ x < 50		

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Frequency Table - Worksheet

Applied

1) **(a)** Adil asks 20 people about what type of music they like most.
Here are the results:

Pop Jazz R&B Jazz Pop Classical Rock Jazz Pop R&B
R&B R&B Jazz Classical Pop Rock Rock Pop R&B Pop

Complete the frequency table.

Types of music	Tally	Frequency
Classical		
Jazz		
Pop		
R & B		
Rock		

(b) What is the most popular type of music?

2) **(a)** Charlie observed as cars went on to a ferry and made a note of the number of people in each car. Here are the results:

1 5 3 2 4 4 3 2 4 2
2 3 4 4 5 3 2 2 4 3
1 3 4

Complete the frequency table:

Number of people	Tally	Frequency
1		
2		
3		
4		
5		

(b) How many cars went on to the ferry?

Frequency Table - Worksheet

3) **(a)** A science test is marked out of 50. The marks for 28 students are below:

21 23 16 35 47 36 41 17 25 36

37 43 38 21 29 45 49 42 32 42

37 39 43 36 43 19 26 24

Complete the grouped frequency table.

Marks	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		
40 to 49		

(b) The pass mark for the test was 30.
Use the table to find out how many students passed the test.

4) **(a)** A class of 20 students were asked to estimate one minute. The results are below:

58.3 49.1 51.2 48.2 71.2 53.9 61.2 55.8 69.8 67.0
61.2 47.5 55.6 63.8 59.3 73.4 54.2 65.3 57.3 52.0

Complete the grouped frequency table.

Time, t seconds	Tally	Frequency
$40 \leq t < 50$		
$50 \leq t < 60$		
$60 \leq t < 70$		
$70 \leq t < 80$		

(b) How many students were within 10 seconds of correctly estimating one minute?

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Frequency Table - Exam Questions

1) Mia asked 22 children what sport they liked the most.

Here are the results:

Rugby Football Swimming Hockey Rugby Rugby
Football Football Swimming Hockey Rugby Hockey
Football Football Football Rugby Football Swimming
Football Rugby Swimming Hockey

Complete the frequency table.

Sport	Tally	Frequency
Football		
Hockey		
Rugby		
Swimming		

(2 marks)

---

2) Oliver asks 20 people in his class how many siblings they have.
Here are the results:

0 2 4 3 2 1 3 2 1 0
0 4 3 2 1 1 0 4 3 2

Complete the frequency table.

Number of siblings	Tally	Frequency
0		
1		
2		
3		
4		

(2 marks)

Frequency Table - Exam Questions

3) Rani watched 12 people shop in the local store. She made a note of how much money they spent. Here are the results:

£4.76	£2.86	£13.56	£8.52
£4.32	£3.98	£14.31	£7.65
£12.43	£3.92	£3.12	£16.43

Complete the grouped frequency table.

Money	Tally	Frequency
£0 to £4.99		
£5 to £9.99		
£10 to £14.99		
£15 to £19.99		

(2 marks)

---

4) Trevor has 20 cattle on his farm. The weights of the cattle in kg are:

81 89 124 159 186 106 178 175 147 123 96
105 176 124 167 50 162 197 154 133

Complete the grouped frequency table.

Weight, w kg	Tally	Frequency
$0 < w \leq 50$		
$50 < w \leq 100$		
$100 < w \leq 150$		
$150 < w \leq 200$		

(3 marks)

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Frequency Table - Answers

	Question	Answer
	Skill Questions	
Group A	Complete the frequency table:	

1) red green red blue green
green blue blue green blue

1)

Colours	Tally	Frequency
Red	||	2
Blue	||||	4
Green	||||	4

2) green red blue red blue
white green red blue green
red green white green blue

2)

Colours	Tally	Frequency
Red	||||	4
Blue	||||	4
Green	~~||||~~	5
White	||	2

3) yellow red blue yellow blue
white blue red red green
red white red green blue
yellow blue red blue yellow

3)

Colours	Tally	Frequency
Red	~~||||~~ |	6
Blue	~~||||~~ |	6
Green	||	2
White	||	2
Yellow	||||	4

Group B — Complete the frequency table:

1) 1 3 2 3 2
2 1 1 3 3

1)

Numbers	Tally	Frequency
1	|||	3
2	|||	3
3	||||	4

2) 4 3 4 3 2
2 3 2 3 4
1 3 4 2 1

2)

Numbers	Tally	Frequency
1	||	2
2	||||	4
3	~~||||~~	5
4	||||	4

3) 4 3 0 3 0
4 1 1 0 2
3 3 4 3 4
1 2 4 2 1

3)

Numbers	Tally	Frequency
0	|||	3
1	||||	4
2	|||	3
3	~~||||~~	5
4	~~||||~~	5

Frequency Table - Answers

Group C

Complete the grouped frequency table:

1) 0 1 14 2 5
9 10 3 7 14

1)

Numbers	Tally	Frequency
0 to 4	||||	4
5 to 9	|||	3
10 to 14	|||	3

2) 12 16 11 7 11
15 1 17 12 5
8 10 3 16 14

2)

Numbers	Tally	Frequency
0 to 4	||	2
5 to 9	|||	3
10 to 14	~~||||~~ |	6
15 to 19	||||	4

3) 14 23 7 4 10
22 15 13 3 11
18 19 15 2 4
8 11 13 20 19

3)

Numbers	Tally	Frequency
0 to 4	||||	4
5 to 9	||	2
10 to 14	~~||||~~ |	6
15 to 19	~~||||~~	5
20 to 24	|||	3

Group D

Complete the grouped frequency table:

1) 18.3 19.4 25.1 2.7 4.6
8.6 11.0 13.6 20.6 19.2

1)

Numbers	Tally	Frequency
$0 \le x < 10$	|||	3
$10 \le x < 20$	~~||||~~	5
$20 \le x < 30$	||	2

2) 31.3 26.4 25.1 2.7 4.6
17.3 12.7 15.8 25.4 9.2
32.5 14.0 11.5 22.9 3.2

2)

Numbers	Tally	Frequency
$0 \le x < 10$	||||	4
$10 \le x < 20$	~~||||~~	5
$20 \le x < 30$	||||	4
$30 \le x < 40$	||	2

3) 14.3 23.7 35.8 15.4 6.2
28.3 33.4 16.7 2.9 14.6
23.6 31.0 43.6 20.6 19.2
49.5 14.0 41.5 27.9 43.2

3)

Numbers	Tally	Frequency
$0 \le x < 10$	||	2
$10 \le x < 20$	~~||||~~ |	6
$20 \le x < 30$	~~||||~~	5
$30 \le x < 40$	|||	3
$40 \le x < 50$	||||	4

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Frequency Table - Answers

	Question	Answer
	Applied Questions	
1)	Adil asks 20 people about what type of music they like most. Here are the results: Pop Jazz R&B Jazz Pop Classical Rock Jazz Pop R&B R&B R&B Jazz Classical Pop Rock Rock Pop R&B Pop **a)** Complete the frequency table.	**a)**

Types of music	Tally	Frequency
Classical		
Jazz		
Pop		
R & B		
Rock		

Types of music	Tally	Frequency
Classical	||	2
Jazz	||||	4
Pop	~~||||~~ |	6
R & B	~~||||~~	5
Rock	|||	3

b) What is the most popular type of music?

b) Pop music

2)	Charlie observed as cars went on to a ferry and made a note of the number of people in each car. Here are the results: 1 5 3 2 4 4 3 2 4 2 2 3 4 4 5 3 2 2 4 3 1 3 4	
	a) Complete the frequency table:	**a)**

Number of people	Tally	Frequency
1		
2		
3		
4		
5		

Number of people	Tally	Frequency
1	||	2
2	~~||||~~ |	6
3	~~||||~~ |	6
4	~~||||~~ ||	7
5	||	2

Frequency Table - Answers

b) How many cars went on to the ferry?

b) 23 cars

3) A science test is marked out of 50. The marks for 28 students are below:

21 23 16 35 47 36 41 17 25
36 37 43 38 21 29 45 49 42
32 42 37 39 43 36 43 19 26
24

a) Complete the grouped frequency table.

Marks	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		
40 to 49		

b) The pass mark for the test was 30. Use the table to find out how many students passed the test.

a)

Marks	Tally	Frequency
0 to 9		0
10 to 19	|||	3
20 to 29	卌 ||	7
30 to 39	卌 ||||	9
40 to 49	卌 ||||	9

b) 18 students passed

4) A class of 20 students were asked to estimate one minute. The results are below:

58.3 49.1 51.2 48.2 71.2
53.9 61.2 55.8 69.8 67.0
61.2 47.5 55.6 63.8 59.3
73.4 54.2 65.3 57.3 52.0

a)

Time, t seconds	Tally	Frequency
40 ≤ t < 50		
50 ≤ t < 60		
60 ≤ t < 70		
70 ≤ t < 80		

b) How many students were within 10 seconds of correctly estimating one minute?

a)

Time, t seconds	Tally	Frequency
40 ≤ t < 50	|||	3
50 ≤ t < 60	卌 ||||	9
60 ≤ t < 70	卌 |	6
70 ≤ t < 80	||	2

b) 15 students

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Frequency Table - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Mia asked 22 children what sport they liked the most. Here are the results: Rugby Football Swimming Hockey Rugby Rugby Football Football Swimming Hockey Rugby Hockey Football Football Football Rugby Football Swimming Football Rugby Swimming Hockey Complete the frequency table. Sport / Tally / Frequency Football Hockey Rugby Swimming	Sport / Tally / Frequency Football / ~~||||~~ ||| / 8 Hockey / |||| / 4 Rugby / ~~||||~~ | / 6 Swimming / |||| / 4 For one correct tally or frequency For all 4 correct frequencies	(1) (1)
2)	Oliver asks 20 people in his class how many siblings they have. Here are the results: 0 2 4 3 2 1 3 2 1 0 0 4 3 2 1 1 0 4 3 2 Complete the frequency table. Number of siblings / Tally / Frequency 0 1 2 3 4	Number of siblings / Tally / Frequency 0 / |||| / 4 1 / |||| / 4 2 / ~~||||~~ / 5 3 / |||| / 4 4 / ||| / 3 For one correct tally or frequency For all 4 correct frequencies	(1) (1)

Frequency Table - Mark Scheme

3) Rani watched 12 people shop in the local store. She made a note of how much money they spent.
Here are the results:

£4.76	£2.86	£13.56	£8.52
£4.32	£3.98	£14.31	£7.65
£12.43	£3.92	£3.12	£16.43

Complete the grouped frequency table.

Money	Tally	Frequency
£0 to £4.99		
£5 to £9.99		
£10 to £14.99		
£15 to £19.99		

Money	Tally	Frequency
£0 to £4.99	卌 |	6
£5 to £9.99	||	2
£10 to £14.99	|||	3
£15 to £19.99	||||	1

For one correct tally or frequency **(1)**
For all 4 correct frequencies **(1)**

4) Trevor has 20 cattle on his farm.
The weights of the cattle in kg are:

81	89	124	159	186
106	178	175	147	123
96	105	176	124	167
50	162	197	154	133

Complete the grouped frequency table.

Weight, w kg	Tally	Frequency
0 < w ≤ 50		
50 < w ≤ 100		
100 < w ≤ 150		
150 < w ≤ 200		

Weight, w kg	Tally	Frequency
0 < w ≤ 50	|	1
50 < w ≤ 100	|||	3
100 < w ≤ 150	卌 ||	7
150 < w ≤ 200	卌 ||||	9

For one correct tally or frequency **(1)**
For all 4 correct frequencies **(1)**

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