Frequency and grouped frequency tables

maths-school.co.uk

Name:

Calculate the frequencies from the tally charts given in these tables:

a)
Travel	Tally	Frequency
Train	ⵘⵘⵘ ⵘⵘⵘ II	
Bus	ⵘⵘⵘ III	
Car	IIII	
Walk	ⵘⵘⵘ ⵘⵘⵘ	

b)
Colour	Tally	Frequency
Green	ⵘⵘⵘ IIII	
White	ⵘⵘⵘ I	
Blue	IIII	
Red	ⵘⵘⵘ III	

c)
Goals	Tally	Frequency
0	ⵘⵘⵘ IIII	
1	ⵘⵘⵘ II	
2	IIII	
3	ⵘⵘⵘ ⵘⵘⵘ ⵘⵘⵘ I	

Complete the tally charts using the data given to calculate the frequencies:

d) Green, Blue, Red, Red, Red, Blue, Red, Green, Red, Green, Red, Red, Red, Blue, Green, Red, Green, Blue, Blue, Red, Red, Blue, Green, Blue, Red, Red, Green

Travel	Tally	Frequency
Red		
Blue		
Green		

e) 5, 6, 7, 7, 5, 7, 8, 5, 5, 7, 6, 6, 6, 7, 5, 8, 7, 5, 8, 6, 5, 8, 7, 5, 8, 7, 6, 5, 8, 6, 6, 5, 8, 6, 7, 8, 6, 6, 5, 5, 6, 7, 7, 8, 6, 6, 5, 7, 7, 5

Travel	Tally	Frequency
5		
6		
7		
8		

Complete the tally charts using the data given to calculate the grouped frequencies:

f) 2, 3, 3, 4, 4, 1, 6, 5, 3, 1, 3, 2, 4, 5, 3 0, 4, 2, 6, 5, 2, 4, 6, 7, 3, 6, 5, 6, 5, 0, 1, 2, 4, 3, 2, 1, 0, 3, 2, 4, 0, 2, 3, 1, 4, 5, 2, 3, 5

Goals	Tally	Frequency
0 – 1		
2 – 3		
4 – 5		
6 – 7		

g) 25, 53, 44, 30, 36, 44, 18, 8, 22, 40, 25, 18, 55, 31, 15, 29, 50, 9, 54, 10, 45 46, 17, 20, 44, 52, 39, 50, 14, 16, 35, 28, 35, 45, 50, 49, 28, 16, 15, 36, 41, 60, 24

Time (s)	Tally	Frequency
0 < a ≤ 10		
10 < a ≤ 20		
20 < a ≤ 30		
30 < a ≤ 40		
40 < a ≤ 50		
50 < a ≤ 60		

h) 152, 153, 144, 160, 162, 164, 172, 148, 152, 149, 153, 178, 155, 161, 155, 171, 175, 169, 148, 170, 161, 170, 165, 172, 145, 155, 158, 164, 172, 176, 141, 148

Height (cm)	Tally	Frequency
140 < h ≤ 150		
150 < h ≤ 160		
160 < h ≤ 170		
170 < h ≤ 180		

Exam question:

36 students recorded the number of people living in their household. Here are the results:

2, 5, 6, 4, 3, 4, 5, 5, 7, 5, 3, 4, 4, 3, 3, 5, 4, 3 4, 5, 3, 4, 4, 4, 5, 5, 4, 2, 3, 4, 3, 4, 3, 4, 3, 5

Complete the frequency table to show these results.

People	Tally	Frequency
2		
3		
4		
5		
6		
7		