

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
- 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		

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		



	-		-	-				
4	3	4	3	2		Numbers	Tally	Frequency
2	3	2	3	4		1		
1	C	4	C	1		2		
T	3	4	Ζ	T		3		
						4		
4	3	0	3	0		Numbers	Tally	Frequency
4 4	3 1	0 1	3 0	0 2		Numbers 0	Tally	Frequency
4	3 1	01	3 0	0 2		Numbers 0 1	Tally	Frequency
4 4 3	3 1 3	0 1 4	3 0 3	0 2 4		Numbers 0 1 2	Tally	Frequency
4 4 3 1	3 1 3 2	0 1 4 4	3 0 3 2	0 2 4 1		Numbers 0 1 2 3	Tally	Frequency
	4 2 1	4 3 2 3 1 3	4 3 4 2 3 2 1 3 4	4 3 4 3 2 3 2 3 1 3 4 2	4 3 4 3 2 2 3 2 3 4 1 3 4 2 1	4 3 4 3 2 2 3 2 3 4 1 3 4 2 1	4 3 4 3 2 Numbers 2 3 2 3 4 1 1 3 4 2 1 3 1 3 4 2 1 3 4 4 4 4 4	4 3 4 3 2 Numbers Tally 2 3 2 3 4 1 1 2 3 2 3 4 2 1 1 3 4 2 1 3 4 4 4 4 4 1 1

Group C - grouped discrete data

Complete the grouped frequency table

1)	0	1	14	2	5
	9	10	3	7	14
2)	12	16	11	7	11
	15	1	17	12	5
	8	10	3	16	14
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		

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

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



Group D - grouped data continuous

Complete the grouped frequency table

1)	18.3	19.4	25.1	2.7	4.6	Numbers	
	8.6	11.0	13.6	20.6	19.2	0 ≤ x < 10	Τ
						10 ≤ x < 20	
						20 ≤ x < 30	
2)	31.3	26.4	25.1	2.7	4.6	Numbers	
	17.3	12.7	15.8	25.4	9.2	0 ≤ x < 10	
	22 F	1 4 0		22.0	2.2	10 ≤ x < 20	
	32.5	14.0	11.5	22.9	3.2	20 ≤ x < 30	
						30 ≤ x < 40	
3)	14.3	23.7	35.8	15.4	6.2	Numbers	
	28.3	33.4	16.7	2.9	14.6	0 ≤ x < 10	
	22 C	21.0	12.0	20.0	10.2	10 ≤ x < 20	
	23.0	31.0	43.6	20.6	19.2	20 ≤ x < 30	
	49.5	14.0	41.5	27.9	43.2	30 ≤ x < 40	

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

т

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

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



Applied

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

Рор	Jazz	R&B	Jazz	Рор	Classical	Rock	Jazz	Рор	R&B
R&B	R&B	Jazz	Classical	Рор	Rock	Rock	Рор	R&B	Рор

Complete the frequency table.

Types of music	Tally	Frequency
Classical		
Jazz		
Рор		
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 3 2 2 2 4 4 4 5 3 2 2 4 3 2 3 4 4 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?



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 ≤ t < 50		
50 ≤ t < 60		
60 ≤ t < 70		
70 ≤ t < 80		

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



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 ≤ 50		
50 < w ≤ 100		
100 < w ≤ 150		
150 < w ≤ 200		

(3 marks)

7



	Qu	esti	on					Ans	swer		
	Ski	ll Qu	estic	ons							
Group A	Cor	Question Skill Questions Complete the frequency table: 1) red green red blue green blue blue green blue blue green blue the green red blue red green white green white green white green white green blue red red green blue red red green blue the frequency table: 2) green te blue green red blue red green white green blue blue green 3) yellow red blue red red green blue the frequency table: 4 3 4 3 2 4 3 4 3 2 3) 4 3 3 3 4 3 0 3 0									
	1)	red are	en '	green blue	red blue	blue areen	green blue	1)	Colours Red	Tally	Frequency 2
		5				5			Blue Green		4
	2)	gre whi red	en ite g	red green green	blue red whit	e red blue te gree	blue green n blue	2)	Colours Red Blue Green	Tally	Frequency 4 4 5
	3)	yell whi	low ite	red blue	blue red	yellow red	/ blue green	3)	White Colours Red	Tally	2 Frequency 6
		red yell	low	white blue	red red	green blue	blue yellow		Blue Green White Yellow		6 2 2 4
Group B	Cor	nplet	te th	e freq	uency	/ table:					
	1)	1 2	3 1	2 1	3 3	2 3		1)	Numbers 1 2 3	Tally	Frequency 3 3 4
	2)	4 2 1	3 3 3	4 2 4	3 3 2	2 4 1		2)	Numbers 1 2 3 4	Tally	Frequency 2 4 5 4
	3)	4 4 3 1	3 1 3 2	0 1 4 4	3 0 3 2	0 2 4 1		3)	Numbers 0 1 2 3 4	Tally III IIII IIII IIII IIII IIII IIII	Frequency 3 4 3 5 5 5

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Group C	Con	nplete	the gro	uped fr	equen	cy table:				
	1)	0 9	1 10	14 3	2 7	5 14	1)	Numbers 0 to 4 5 to 9	Tally 	Frequency 4 3
								10 to 14		3
	2)	12	16	11	7	11	2)	Numbers	Tally	Frequency
		15	1	17	12	5		0 to 4	11	2
		10	10	2	10	1 4		5 to 9		3
		8	10	3	10	14		10 to 14		6
								15 to 19		4
				_	_					
	3)	14	23	7	4	10	3)	Numbers	Tally	Frequency
		22	15	13	3	11		0 to 4		4
		40	10	10	0	+ + ,		5 to 9		2
		18	19	15	2	4		10 to 14		6
		8	11	13	20	19		15 to 19	1111	5
Group D	Con	nplete	the gro	uped fre	equen	cy table:				
	1)	18.3	19.4	25.1	2.7	7 4.6	1)	Numbers	Tally	Frequency
		8.6	11.0	13.6	20.6	5 19.2		0 ≤ x < 10		3
								10 ≤ x < 20	ШТ	5
								20 ≤ x < 30	l II	2
	2)	31.3	26.4	25.1	2.7	4.6	2)	Numbers	Tally	Frequency
		173	127	158	254	92		0 ≤ x < 10		4
		27 E	140	11 G	22.0) 27		10 ≤ x < 20	Ш	5
		52.5	14.0	11.5	22.3	J.Z		20 ≤ x < 30		4
								30 ≤ x < 40	II	2
	3)	14.3	23.7	35.8	15.4	6.2	3)	Numbers	Tally	Frequency
		28.3	33.4	16.7	2.9	14.6		0 ≤ x < 10	11	2
		236	31.0	43.6	20 F	5 192		10 ≤ x < 20	JHT I	6
		10 E	1/0	/1 E	20.0	A20		20 ≤ x < 30	Ш.	5
		49.9	14.0	41.0	27.5	, 4J.Z		30 ≤ x < 40		3
1	1						1	40 ≤ x < 50		4
									· · · · · · · · · · · · · · · · · · ·	



	Qı	uestion oplied Questions Adil asks 20 people about what type of music they like most. Here are the results: Here are the results: Pop Jazz R&B Jazz 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 Classical Image: State of the number of people in each car. Here are the result of the number of people in each car. Here are the result of the number of people in each car. Here are the result 1 5 3 2 4 3 2 4 2 1 3 4 5 3 2 2 4 3 1 3 4				Ar	Answer		
	Ар	plied Question	ons						
1)		Adil asks 20 music they li Here are the	people ke most results:	about [.]	what type of				
		Question Applied Questions Adil asks 20 people about whenusic they like most. Here are the results: Pop Jazz Pop Jazz Pop R&B Pop R&B Pop R&B Jazz Classical Pop R&B Jazz Classical Pop R&B Jazz Classical Pop R&B Jazz Classical Jazz Classical Jazz Tally Classical Image: State sta			Jazz				
		Question Applied Questions Adil asks 20 people about music they like most. Here are the results: Pop Jazz Pop Jazz Pop R&B Pop Classical Pop R&B Jazz Classical Pop R&B Jazz Classical Pop R&B Jazz Classical Jazz Classical Jazz Tally Classical Image: Classical Jazz Tally Classical Image: Classical Jazz Pop Rock Image: Classical Jazz Image: Classical Pop Image: Classical R & B			Jazz				
		Pop R	&B	R&B	R&B				
		Jazz C	lassical	Рор	Rock				
		Rock P	ор	R&B	Рор				
	a)	music they like most. Here are the results: Pop Jazz R&B Jaz Pop Classical Rock Jaz Pop R&B R&B R& Jazz Classical Pop Rock Jazz Classical Pop Rock Ocmplete the frequency table. Types of music Tally Freque Classical Image: Classical			ole.	a)	Types of music	Tally	Frequency
		Types of music Tally			Frequency		Classical	, 	2
		Classical					Jazz		4
		Jazz					Рор	JHT I	6
		Рор					R & B	JHT	5
		R & B					Rock	111	3
		Rock							
	b)	What is the I	nost po	pular t	ype of music?	b)	Pop music		
2)		Charlie obse ferry and ma people in ead 1 5 3 2 2 3 4 4 1 3 4	rved as de a not ch car. F 4 4 5 3	cars w te of th Here ar 3 2 2 2	ent on to a le number of re the results: 4 2 4 3				
	a)	Complete the	e freque	ncy tal	ble:	a)	Number of people	Tally	Frequency
		people	Tally	Frequend	ε γ		1	11	2
		Types of music Tally Freque Classical					2	JHT I	6
		3			Jazz Jazz Jazz R&B Rock Pop Ie. Frequency a) Types of music Tally Classical Jazz Jazz III Pop Jazz Jazz III Pop Jazz III II II II II II			6	
		4					4	JHT	7
		5					5		2



	b)	How many ca	ars went on to	the ferry?	b)	23 cars		
3)		A science tes marks for 28 21 23 16 36 37 43 32 42 37 24	t is marked ou students are k 35 47 36 38 21 29 39 43 36	nt of 50. The below: 41 17 25 45 49 42 43 19 26				
	a)	Complete the	e grouped freq	uency table.	a)	Marks	Tally	Frequency
		Marks	Tally	Frequency		0 to 9		0
		0 to 9				10 to 19		3
		10 to 19				20 to 29	JHT	7
		20 to 29				30 to 39		9
		30 to 39				40 to 49	JH1	9
		40 to 49						
	b)	The pass man Use the table students pas	rk for the test e to find out ho sed the test.	was 30. ow many	b)	18 students	passed	
4)		A class of 20 estimate one below: 58.3 49.1 53.9 61.2 61.2 47.5 73.4 54.2	students wer minute. The 51.2 48.2 55.8 69.8 55.6 63.8 65.3 57.3	e asked to results are 71.2 67.0 59.3 52.0				
	a)	Time, t seconds	Tally	Frequency	a)	Time, t seconds	Tally	Frequency
		40 ≤ t < 50				40 ≤ t < 50		3
		50 ≤ t < 60				50 ≤ t < 60	JHT IIII	9
		60 ≤ t < 70				60 ≤ t < 70		6
		70 ≤ t < 80				70≤t<80		2
	b)	How many st seconds of co minute?	udents were v prrectly estima	within 10 Iting one	b)	15 students		



Frequency Table - Mark Scheme

	Question			A	nswer			
	Exam Quest	ions						
1)	Mia asked 22 liked the most Here are the re Rugby Footh Rugby Rugh Swimming H Football Foot Swimming H	children what esults: ball Swimmi by Football Hockey Rug tball Footba imming Footba	sport they ng Hockey Football by Hockey II Rugby pall Rugby		Sport Football Hockey Rugby Swimming For one correc For all 4 correc	Tally JHT JHT IIII IIII t tally or frequencies	Frequency 8 4 6 4 ency	(1) (1)
	Complete the Sport Football Hockey Rugby Swimming	frequency tabl	e. Frequency					
2)	Oliver asks 20 many siblings Here are the 0 2 4 3 0 4 3 2 Complete the Number of siblings 0 1 2 3 4	people in his they have. results: 2 1 3 2 1 1 0 4 frequency tabl Tally	class how 1 0 3 2 e. Frequency		Number of siblings 0 1 2 3 4 For one correc For all 4 correc	Tally IIII IIII IIII IIII III t tally or frequencies	Frequency 4 4 5 4 3 ency	(1) (1)



Frequency Table - Mark Scheme

3)	Rani watched	12 people sho	p in the local		Money	Tally	Frequency	
	store. She mac	le a note of ho	w much		£0 to £4.99	JHT I	6	
	money they sp	ent.			£5 to £9.99	11	2	
	Here are the re	esults:			£10 to £14.99		3	
	$f_{4.70}$ f_{2.}	98 ± 13.50	£0.52 £7.65		£15 to £19 99		1	
	£12.43 £3.	.92 £3.12	£16.43			1111 tallar on fuo au		
				1	For one correct	t tally or frequencies	ency	(1)
	Complete the	grouped frequ	ency table.			n nequencies		(1)
	Money	Tally	Frequency					
	£0 to £4.99							
	£5 to £9.99							
	£10 to £14.99							
	£15 to £19.99							
				_				
4)	Trevor has 20	cattle on his fa	arm.		Weight, w kg	Tally	Frequency	
	I ne weights o	$\frac{1}{24} \frac{1}{150} \frac{1}{180} \frac{1}{$	kg are:		0 < w ≤ 50		1	
	106 178 1	75 147 12	3		50 < w ≤ 100		3	
	96 105 1	76 124 167	7		100 < w ≤ 150	JHT II	7	
	50 162 1	97 154 133	3		150 < w ≤ 200		9	
	Complete the	grouped frequ	ency table.]	For one correct	t tally or freque	ency	(1)
	Weight, w kg	Tally	Frequency]	For all 4 correc	t frequencies	2	(1)
	0 < w ≤ 50							
	50 < w ≤ 100							
	100 < w ≤ 150							
	150 < w ≤ 200							

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