

GCSE Exam Questions

Grouped Frequency Table | Statistics



GCSE Exam Questions: Grouped Frequency Table

 Adil carried out a survey to find the number of emails sent by 20 of his friends yesterday.

Here are the results:

4	22	27	32	11
35	40	13	39	18
28	5	12	42	25
17	25	45	38	8

Complete the grouped frequency table:

Number of emails	Tally	Frequency
0 - 9		
10 - 19		
20 - 29		
30 - 39		
40 - 49		

(2 marks)



GCSE Exam Questions: Grouped Frequency Table

2) (a) Charlie asked 20 people how long in minutes they spent doing their English homework.

Here are their results.

58	19	30	25	37
27	25	35	45	37
48	42	30	49	28
35	14	20	32	37

Complete the grouped frequency table:

Time, t minutes	Tally	Frequency
$0 < t \leq 15$		
$15 < t \leq 30$		
$30 < t \leq 45$		
$45 < t \leq 60$		

(2)

(b) What percentage of people spent half an hour or less on English homework?

.....% (2) (4 marks)



(2)

GCSE Exam Questions: Grouped Frequency Table

3) (a) Roshan is surveying the heights of 20 tomato plants.She measures them to the nearest centimetre.

Here are the results in metres

1.26	1.42	1.75	1.03	1.28
1.15	1.28	1.09	1.80	1.59
1.92	1.44	1.38	1.55	1.62
1.64	1.79	1.91	1.73	1.52

Complete the grouped frequency table:

Height, h (m)	Tally	Frequency
$1.00 < h \leq 1.25$		
$1.25 < h \leq 1.50$		
$1.50 < h \leq 1.75$		
$1.75 < h \leq 2.00$		

(b) What percentage of tomato plants are more than 125 cm tall?

.....% (2) (4 marks)

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GCSE Exam Questions: Grouped Frequency Table Answers

	Question					An	Answer			
1)		s sent by	a survey to 20 of his ilts:				Number of emails 0 - 9	Tally	Frequency 3	
	4	22	27	32	11		10 - 19	۳	5	
	35	40	13	32 39	18		20 - 29	Ж	5	
							30 - 39		4	
	28	5	12	42	25		40 - 49	III	3	
	172545388Complete the grouped frequency table:						one correct ta uencies correc	Illy or frequency	(1) (1)	
	Numbe	er of emails	Tally	Freque	ency					
		0 - 9								
	1	0 - 19								
		0 - 29								
		0 - 39								
	4	0 - 49								
2) (a)		nt doing) people hc their Engl sults.			5 (a)	Time, t minute $0 < t \le 25$ $15 < t \le 30$	s Tally	Frequency 1 8	
	58	19	30	25	37		$30 < t \leq 45$	JHT III	8	
	27	25	35	45	37		$45 < t \le 60$		3	
	48	42	30	49	28					
	Complet	te the gro	20 Duped freq	32 uency ta	37 ble:			one correct ta uencies correc	Illy or frequency et	7 (1) (1)
	Time,	minutes	Tally	Fre	quency					
	0 <	$t \le 15$								
	15 <	$t \leq 30$								
	30 <	$t \leq 45$								
	45 <	$t \leq 60$								
(b)			e of people h homewo		alf an ho	r (b)	$rac{1+8}{20} imes$	100		(1)



GCSE Exam Questions: Grouped Frequency Table Answers

	Question				Answer				Marks
3) (a)	Roshan is survey	ring the he	eights of	20 tomato	(a)	Height, h (m)	Tally	Frequency	
	plants. She measures the	em to the i	nearest c	entimetre.		$1.00 < h \leq 1.25$		3	
						$1.25 < h \leq 1.50$	JHT I	6	
	Here are the results in metres					$1.50 < h \leq 1.75$	JHT	7	
	1.26 1.42 1.75 1.03 1.28					$1.75 < h \leq 2.00$		4	
	1.15 1.28	1.09	1.80	1.59		For at least o	ne correct tall	v or frequency	(1)
	1.92 1.44 1.38 1.55 1.62				For at least one correct tally or frequency For all frequencies correct				(1)
	1.64 1.79	1.91	1.73	1.52					
	Complete the gro	ouped freq	uency ta	ble:					
	Height, h (m)	Tally	Free	quency					
	$1.00 < h \leq 1.25$								
	$1.25 < h \leq 1.50$								
	$1.50 < h \leq 1.75$								
	$1.75 < h \leq 2.00$								
(b)	What percentage than 125 <i>cm</i> tall?		o plants a	ire more	(b)	$rac{6+7+4}{20}$:	× 100		(1)
						= 85%			(1)

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