

Grouped frequency table - Worksheet

Skill

Group A - Tally marks

Work out the frequency represented by the following tally marks:

- | | | |
|-----|-----|-----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |
| 7) | 8) | 9) |
| 10) | 11) | 12) |

Group B - Frequencies

Fill in the frequencies for the grouped frequency tables:

1)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

2)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

3)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

4)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

5)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

6)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

Grouped frequency table - Worksheet

7)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

8)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

9)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

10)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

11)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

12)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

Group C - Classes

From the table identify the class (or classes) with the following frequencies:

1) 7

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

2) 5

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

3) 7

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

4) 4

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

Grouped frequency table - Worksheet

5) 11

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

6) Greater than 10

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

7) 5

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

8) 6 or less

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

9) 12

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

10) Less than 5

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

11) 10

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

12) 14

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

Grouped frequency table - Worksheet

Applied

- 1) (a) A class took a science test. Here are their scores:

11	14	9	12	8
17	16	8	6	10
5	19	15	13	9

Fill in the grouped frequency table:

Score	Tally	Frequency
1 to 5		
6 to 10		
11 to 15		
16 to 20		

- (b) A score of 11 or more is needed to pass the science test.
What is the ratio of the number of people who fail to the number of people who pass?

- 2) (a) Sarah carries out a survey about the time that some students spend on their mobile phones a day. Here are the results:

35	55	32	46	40
50	48	60	78	19
35	43	20	82	85
26	70	65	28	45

Fill in the grouped frequency table:

Time (minutes)	Tally	Frequency
$0 \leq x < 25$		
$25 \leq x < 50$		
$50 \leq x < 75$		
$75 \leq x < 100$		

- (b) What percentage of students are on their mobile phone for 75 minutes or more?

Grouped frequency table - Worksheet

- 3) (a) Bryn carries out a survey about the lengths of cucumbers in the supermarket. Here are the results:

20.5	38.4	33.9	35.0	25.8
30.4	39.8	37.6	26.4	21.9
27.9	36.9	21.3	26.7	29.6
32.8	37.0	32.7	24.7	34.1

Fill in the grouped frequency table:

Length (L , cm)	Tally	Frequency
$20 \leq L < 25$		
$25 \leq L < 30$		
$30 \leq L < 35$		
$35 \leq L < 40$		

- (b) What percentage of cucumbers are 25cm or longer?

- 4) Below is a set of 20 scores from a test.

11	31	55	38	7
32	26	40	13	25
27	44	17	46	37
24	35	37	28	45

Create a suitable grouped frequency table for these scores.
The maximum mark is 60.

Grouped frequency table - Exam Questions

- 1) 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)

Grouped frequency table - Exam Questions

- 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)

Grouped frequency table - Exam Questions

- 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
$1.00 < h \leq 1.25$		
$1.25 < h \leq 1.50$		
$1.50 < h \leq 1.75$		
$1.75 < h \leq 2.00$		

(2)

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

.....%

(2)

(4 marks)

Grouped frequency table - Answers

	Question	Answer
	Skill Questions	
Group A	Work out the frequency represented by the following tally marks: 1)  2)  3)  4)  5)  6)  7)  8)  9)  10)  11)  12) 	1) 2 2) 3 3) 4 4) 5 5) 7 6) 8 7) 10 8) 13 9) 14 10) 15 11) 16 12) 18

Grouped frequency table - Answers

Group B

Fill in the frequencies for the grouped frequency tables:

1)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

1) 3, 7, 5

2)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

2) 5, 11, 7

3)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

3) 7, 12, 11

4)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

4) 3, 4, 7, 5

5)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

5) 3, 12, 11, 7

6)

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

6) 7, 9, 14, 11

7)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

7) 3, 9, 5

Grouped frequency table - Answers

Group B contd

8)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

8) 5, 7, 6

9)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

9) 7, 12, 9

10)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

10) 6, 7, 5, 4

11)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

11) 4, 6, 12, 10

12)

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

12) 6, 10, 14, 11

Grouped frequency table - Answers

Group C

From the table identify the class (or classes) with the following frequencies:

1) 7

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

1) 10 to 19

2) 5

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

2) 0 to 9

3) 7

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		

3) 0 to 9

4) 4

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

4) 10 – 19

5) 11

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

5) 20 – 29

6) Greater than 10

Groups	Tally	Frequency
0 to 9		
10 to 19		
20 to 29		
30 to 39		

6) 20 – 29 and 30 – 39

Grouped frequency table - Answers

Group C contd

7) 5

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

8) 6 or less

Groups	Tally	Frequency
$0 < x \leq 10$		
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Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		

10) Less than 5

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

11) 10

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
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$30 < x \leq 40$		

12) 14

Groups	Tally	Frequency
$0 < x \leq 10$		
$10 < x \leq 20$		
$20 < x \leq 30$		
$30 < x \leq 40$		

7) $20 \leq x < 30$ **8) $0 \leq x < 10$ and $20 \leq x < 30$** **9) $10 \leq x < 20$** **10) $30 < x \leq 40$** **11) $30 < x \leq 40$** **12) $20 < x \leq 30$**

Grouped frequency table - Answers

	Question	Answer																														
	Applied Questions																															
1)	a) A class took a science test. Here are their scores: 11 14 9 12 8 17 16 8 6 10 5 19 15 13 9 Fill in the frequency table: <table border="1"> <thead> <tr> <th>Score</th><th>Tally</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td>1 to 5</td><td></td><td></td></tr> <tr> <td>6 to 10</td><td></td><td></td></tr> <tr> <td>11 to 15</td><td></td><td></td></tr> <tr> <td>16 to 20</td><td></td><td></td></tr> </tbody> </table> b) A score of 11 or more is needed to pass the science test. What is the ratio of the number of people who fail to the number of people who pass?	Score	Tally	Frequency	1 to 5			6 to 10			11 to 15			16 to 20			a) <table border="1"> <thead> <tr> <th>Score</th><th>Tally</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td>1 to 5</td><td> </td><td>1</td></tr> <tr> <td>6 to 10</td><td> </td><td>6</td></tr> <tr> <td>11 to 15</td><td> </td><td>5</td></tr> <tr> <td>16 to 20</td><td> </td><td>3</td></tr> </tbody> </table> b) 7:8	Score	Tally	Frequency	1 to 5		1	6 to 10		6	11 to 15		5	16 to 20		3
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Grouped frequency table - Answers

	b) What percentage of students are on their mobile phone for 75 minutes or more?	b) $\frac{3}{20} \times 100 = 15\%$																														
3)	a) Bryn carries out a survey about the lengths of cucumbers in the supermarket. Here are the results: 20.5 38.4 33.9 35.0 25.8 30.4 39.8 37.6 26.4 21.9 27.9 36.9 21.3 26.7 29.6 32.8 37.0 32.7 24.7 34.1 Fill in the frequency table: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d9e1f2;"> <th>Length (L, cm)</th><th>Tally</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td>$20 \leq L < 25$</td><td></td><td></td></tr> <tr> <td>$25 \leq L < 30$</td><td></td><td></td></tr> <tr> <td>$30 \leq L < 35$</td><td></td><td></td></tr> <tr> <td>$35 \leq L < 40$</td><td></td><td></td></tr> </tbody> </table>	Length (L , cm)	Tally	Frequency	$20 \leq L < 25$			$25 \leq L < 30$			$30 \leq L < 35$			$35 \leq L < 40$			a) <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d9e1f2;"> <th>Length (L, cm)</th><th>Tally</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td>$20 \leq L < 25$</td><td> </td><td>4</td></tr> <tr> <td>$25 \leq L < 30$</td><td> </td><td>5</td></tr> <tr> <td>$30 \leq L < 35$</td><td> </td><td>5</td></tr> <tr> <td>$35 \leq L < 40$</td><td> </td><td>6</td></tr> </tbody> </table>	Length (L , cm)	Tally	Frequency	$20 \leq L < 25$		4	$25 \leq L < 30$		5	$30 \leq L < 35$		5	$35 \leq L < 40$		6
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	b) What percentage of cucumbers are 25cm or longer?	b) $\frac{16}{20} \times 100 = 80\%$																														
4)	Below is a set of 20 scores from a test. 11 31 55 38 7 32 26 40 13 25 27 44 17 46 37 24 35 37 28 45 Create a suitable grouped frequency table for these scores. The maximum mark is 60.	Example solution: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d9e1f2;"> <th>Scores</th><th>Tally</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td>1 - 10</td><td> </td><td>1</td></tr> <tr> <td>11 - 20</td><td> </td><td>3</td></tr> <tr> <td>21 - 30</td><td> </td><td>5</td></tr> <tr> <td>31 - 40</td><td> </td><td>7</td></tr> <tr> <td>41 - 50</td><td> </td><td>3</td></tr> <tr> <td>51 - 60</td><td> </td><td>1</td></tr> </tbody> </table>	Scores	Tally	Frequency	1 - 10		1	11 - 20		3	21 - 30		5	31 - 40		7	41 - 50		3	51 - 60		1									
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Grouped frequency table - Mark Scheme

	Question	Answer																																																		
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1)	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: <table><tr><th>Number of emails</th><th>Tally</th><th>Frequency</th></tr><tr><td>0 - 9</td><td></td><td></td></tr><tr><td>10 - 19</td><td></td><td></td></tr><tr><td>20 - 29</td><td></td><td></td></tr><tr><td>30 - 39</td><td></td><td></td></tr><tr><td>40 - 49</td><td></td><td></td></tr></table>	Number of emails	Tally	Frequency	0 - 9			10 - 19			20 - 29			30 - 39			40 - 49			<table><tr><th>Number of emails</th><th>Tally</th><th>Frequency</th></tr><tr><td>0 - 9</td><td> </td><td>3</td></tr><tr><td>10 - 19</td><td> </td><td>5</td></tr><tr><td>20 - 29</td><td> </td><td>5</td></tr><tr><td>30 - 39</td><td> </td><td>4</td></tr><tr><td>40 - 49</td><td> </td><td>3</td></tr></table> For at least one correct tally or frequency For all frequencies correct (1) (1)	Number of emails	Tally	Frequency	0 - 9		3	10 - 19		5	20 - 29		5	30 - 39		4	40 - 49		3														
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(b)	What percentage of people spent half an hour or less on English homework?	(b) $\frac{1+8}{20} \times 100$ $= 45\%$ (1) (1)																																																		

Grouped frequency table - Mark Scheme

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: <table><thead><tr><th>Height, h (m)</th><th>Tally</th><th>Frequency</th></tr></thead><tbody><tr><td>$1.00 < h \leq 1.25$</td><td></td><td></td></tr><tr><td>$1.25 < h \leq 1.50$</td><td></td><td></td></tr><tr><td>$1.50 < h \leq 1.75$</td><td></td><td></td></tr><tr><td>$1.75 < h \leq 2.00$</td><td></td><td></td></tr></tbody></table>	Height, h (m)	Tally	Frequency	$1.00 < h \leq 1.25$			$1.25 < h \leq 1.50$			$1.50 < h \leq 1.75$			$1.75 < h \leq 2.00$			(a) <table><thead><tr><th>Height, h (m)</th><th>Tally</th><th>Frequency</th></tr></thead><tbody><tr><td>$1.00 < h \leq 1.25$</td><td> </td><td>3</td></tr><tr><td>$1.25 < h \leq 1.50$</td><td> </td><td>6</td></tr><tr><td>$1.50 < h \leq 1.75$</td><td> </td><td>7</td></tr><tr><td>$1.75 < h \leq 2.00$</td><td> </td><td>4</td></tr></tbody></table> For at least one correct tally or frequency For all frequencies correct	Height, h (m)	Tally	Frequency	$1.00 < h \leq 1.25$		3	$1.25 < h \leq 1.50$		6	$1.50 < h \leq 1.75$		7	$1.75 < h \leq 2.00$		4	(1) (1)
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(b) What percentage of tomato plants are more than 125cm tall?	(b) $\frac{6+7+4}{20} \times 100$ $= 85\%$	(1) (1)																														

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