

Name:

Exam Style Questions

## Median: Frequency Table



Equipment needed: Pen, Calculator

### Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

[www.corbettmaths.com/contents](http://www.corbettmaths.com/contents)

## Video 51



Answers and Video Solutions



1. The table shows the ages of the players in an under-21 rugby squad.



Age	Frequency
18	5
19	5
20	9
21	4

Find the median age.

.....  
(2)

2. The table gives information about the number of pets owned by each of 30 students in a class.



Number of pets	Frequency
0	11
1	12
2	6
3	1

Find the median number of pets owned.

.....  
(2)

3. The shoe sizes of 100 students are shown in the table.



Shoe Size	Frequency
2	4
3	11
4	12
5	21
6	34
7	18

(a) Work out the range of the shoe sizes.

.....  
(1)

(b) Work out the median shoe size.

.....  
(2)

4. The table shows the amounts of money withdrawn from a cash machine.



Amount withdrawn	Frequency
£10	56
£20	41
£30	16
£40	4
£50	1
£60	2

Callum says that the median amount withdrawn is £30.

Is Callum correct?  
Explain your answer.

.....

.....

.....

(2)

5. A survey was taken of the amount of money spent at a greengrocers by 50 shoppers on a Saturday.  
The table shows the results.



Amount spent, $m$ , (£)	Frequency
$0 < m \leq 5$	4
$5 < m \leq 10$	12
$10 < m \leq 15$	26
$15 < m \leq 20$	8

Which class interval contains the median?  
You **must** show your working.

.....  $< m \leq$  .....  
(1)

6. George records the times taken by 20 students to complete a puzzle.



Time, $t$ (minutes)	Number of Pupils
$0 < t \leq 3$	1
$3 < t \leq 6$	2
$6 < t \leq 9$	5
$9 < t \leq 12$	3
$12 < t \leq 15$	5
$15 < t \leq 18$	4

Which time interval contains the median time taken to complete the puzzle?

.....  
(1)

7. A manager recorded how long each customer spent in his supermarket. The table shows his results.



Time, $t$ (minutes)	Frequency
$0 < t \leq 10$	24
$10 < t \leq 20$	31
$20 < t \leq 30$	50
$30 < t \leq 40$	35
$40 < t \leq 50$	60

Which class interval contains the median?

.....  
(1)

8. The table shows the heights of some students.



Height ( $h$ cm)	Frequency
$110 < h \leq 120$	8
$120 < h \leq 130$	16
$130 < h \leq 140$	25
$140 < h \leq 150$	32
$150 < h \leq 160$	19

Find the class interval in which the median lies.

.....  
(1)

9. The frequency table below shows the piano grade of the 22 students in a class.



Grade	Frequency
2	3
3	3
4	9
5	2
6	4
7	1

Some new students, who are all grade 7, join the class.  
The median piano grade remains the same.

Work out the greatest possible number of new students.

.....  
(3)

10. Lauren plays 30 football matches.



The table below shows some information about the number of goals she scored in each game.

Number of goals	Frequency
0	6
1	x
2	y
3	2

The median number of goals Lauren scored is 1.5

Work out the values of x and y.

x = ..... and y = .....  
(3)