

# Summer Term Maths Year 10

Day  
3

Week 10

## Find the mean from a frequency table

**1** This table shows how many words there are on each line on one page of a book.

Words on a line	Frequency
10	2
11	4
12	5
13	8
14	6

- How many lines were there on the page?
- Work out the mean number of words on each line of the book.

**2** The table shows the number of bedrooms in 1,000 houses in a town. The table is incomplete.

Number of bedrooms	1	2	3	4	5	6
Number of houses	33	124	237	380	186	

- How many houses have six bedrooms?
- What is the modal number of bedrooms?
- Find the mean number of bedrooms in the house.

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## Find the mean from a frequency table

**3** Ron was trying to estimate the mean average mass of some rocks he collected. Complete the table.

Mass, $m$ (g)	Frequency	Midpoint	$f \times \text{m.p.}$
$10 < m \leq 30$	6	20	$6 \times 20 = 120$
$30 < m \leq 50$	11	40	
$50 < m \leq 70$	24		
$70 < m \leq 90$	26		

Complete the calculation to find an estimate of the mean mass of the rocks.

$$\frac{\text{total mass}}{\text{total frequency}} = \text{—————} =$$

**4** The waiting time in a queue at the supermarket is shown in the table.

Time, $t$ (min)	Frequency		
$0 < t \leq 3$	20		
$3 < t \leq 4$	15		
$4 < t \leq 5$	8		
$5 < t \leq 10$	2		

- Work out an estimate for the mean waiting time at the supermarket.
- Write the modal class of the waiting times.