

12:02 | Mean, Median and Mode

Name: _____ Class: _____

Examples



- Mean = average
= $\frac{\text{total of scores}}{\text{number of scores}}$
- Median = middle score when they are in order
(or the average of the 2 middle scores)
- Mode = most common score

Find the mean, median and mode of each set of scores.

1	1, 1, 2, 2, 3, 3, 3, 4, 5	2	6, 4, 5, 8, 2, 6, 7	3	4, 10, 12, 5, 6, 7, 16, 6, 14, 6
	Mean = $\frac{1+1+2+2+\dots}{9}$		Mean = $\frac{6+4+5+\dots}{7}$		Mean = $\frac{4+10+12+5+\dots}{10}$
	= $\frac{24}{9} = 2\frac{2}{3}$		= $\frac{38}{7} = 5\frac{3}{7}$		= $\frac{86}{10} = 8.6$
	1 1 2 2 3 3 3 4 5		2 4 5 6 6 7 8		4 5 6 6 6 7 10 12 14 16
	Median = 3		Median = 6		Median = $\frac{6+7}{2} = 6.5$
	Mode = 3		Mode = 6		Mode = 6

Exercise

- For each set of scores, find the mean (to 1 decimal place where necessary).
 - Batsman's scores: 48, 57, 20, 0, 15, 48, 72
 - Golf hole scores: 4, 5, 6, 4, 4, 5, 4, 4, 3, 5
 - Quiz marks: 8, 9, 7, 6, 7, 9, 10, 7, 10
 - Number of children: 0, 1, 0, 2, 3, 5, 2, 2, 2, 1, 4, 3, 2, 3, 1
 - Hannah's test results: 62, 67, 68, 74, 76, 78, 89, 92
 - Rainy days per week: 3, 1, 0, 4, 0, 0, 2, 2, 3
 - Overnight lowest temperature (°C): 9, 9, 10, 4, 10, 5, 9
- For each set of scores in Question 1, what is:
 - the median?
 - the mode?
- Which of the mean, median or mode is of most use in summarising:
 - the batsman's scores?
 - the golfer's scores?
 - the quiz marks?
 - the number of children?

Fun Spot 11:02 | What go through water but don't get wet?



Find the mean, median or mode as indicated for each set of scores.

Match the letters with the answers below.

6, 7, 8, 10, 14: A mean G median 1, 2, 2, 3, 5, 5, 5: H mode I median
 10, 12, 14, 20: L median R mean 4, 4, 7, 15, 20: S mean T median Y mode

13	3	8	5	7

14	9	4	10

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- 1 a 37.1 b 4.4 c 8.1 d 2.1 children e 75.8 f 1.7 days g 8°C
- 2 a i 48 ii 48 b i 4 ii 4 c i 8 ii 7
d i 2 children ii 2 children e i 75 ii no mode f i 2 days ii 0 days g i 9°C ii 9°C
- 3 (You may wish to discuss these.) a mean b none c mean or median d mean or mode