# Learner Resource 28

## Summary table for descriptive statistics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Mean – What is it and how to calculate? | Work out the mean for these data sets | Mode What is it and how to calculate? | Work out the mode for these data sets | Median - What is it and how to calculate? | Work out the median for these data sets | Range- What is it and how to calculate? | Work out the range for these data sets |
| Sum of all the data in a set divided by the amount of values in a data set. Put all the numbers in numerical order.If there are an odd number of results, it is the middle number.If there are an even number of results, it will be the mean of the two central numbers | 11,15,20,22,26,28,30Mean = 2, 3,4,6,7,8,9,1,15Mean = |  | 5, 6, 6, 7, 5, 6, 3, 9, 9,5 ,7Mode = 11, 4, 5, 9. 9. 8, 9, 11, 12, 11Mode = |  | 13,15,20,22,29,5,36Median = 7, 11,4,6,12,8,14,1, 9Median = |  | 4,8,6,15,3,11, 9Range = 3.5.4.9.10.1.5Range =  |
| Ratio – What is it and how to calculate? | Percentages - What are they and how to calculate? | Calculate the following percentages  | Fractions - What are they and how to calculate? | Convert these percentages in to fractions | Standard form – when used? | Decimal form – when used? | Examples of standard and decimal form |
|  |  | 16% of 3052% of 9013% of 73 |  | 25% =50% =67% =89% = |  |  | Standard form5,000,000 would be 5 × 10665,000 would be 6.5 × 104Decimal form0.9 = 9/100.09 = 9/100 0.009 = 9/1000 |
| Significant figures – why used and how to round off? | Examples of significant figures | Decimal places – converting decimal in to % | Decimal places – converting decimal in to fractions | Making estimations from data collected – when used? | Examples of making estimations | Definition of normal distribution  | Example drawing  |
|  | 1 significant figure: 423249 = 400000 (rounded down)2 significant figure: 0.00379 = 0.004 (rounded up)3 significant figures: 0.0040352 = 0.0040 (rounded down)4 significant figures: 345,678 = 345,700 (rounded up) | Move the decimal 2 places to the RIGHTAdd % sign | For 2 decimal places divide by 100For 3 decimal places divide by 1000Find the lowest common denominator |  | With the figure 234 × 39.78 you might want to know “very roughly” what sort of value you are expecting rather than knowing the precise answer. So we do an “order of magnitude” calculation which means rounding the numbers to 1 digit (1 significant figure), so we get: 200 x 40 = 8000 |  |  |

**OCR Resources**: *the small print*OCR’s resources are provided to support the teaching of OCR specifications, but in no way constitute an endorsed teaching method that is required by the Board, and the decision to use them lies with the individual teacher. Whilst every effort is made to ensure the accuracy of the content, OCR cannot be held responsible for any errors or omissions within these resources.
© OCR 2017 - This resource may be freely copied and distributed, as long as the OCR logo and this message remain intact and OCR is acknowledged as the originator of this work.

OCR acknowledges the use of the following content:

Please get in touch if you want to discuss the accessibility of resources we offer to support delivery of our qualifications: resources.feedback@ocr.org.uk