

Analysing audit data/Our 4 Step Guide

For the analysis below, assume 10 patients had the following wait times to be seen in Accident and Emergency:
All figures are in minutes: 62, 82, 100, 149, 151, 151, 196, 233, 234, 416.

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01

**CALCULATE IF THE
STANDARD BEEN MET?**



Audit measures care against a pre-determined standard, e.g. 95 % of patients should be seen within 4 hours of attending A&E. We take our data and calculate the % of patients who met the standard. Result: 90% were seen within 4 hours (240 minutes or less).

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02

CALCULATE THE MEAN

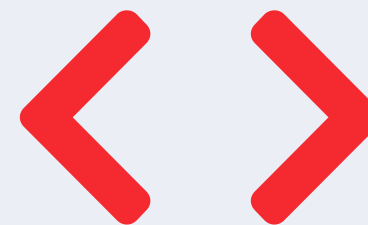


The mean is better known as the average. To calculate the mean (i.e. the average wait in A&E) we sum all the wait times and divide by the 10 patients who we have collected data for. Result: $1774/10 = 177.4$ minutes.

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03

CALCULATE THE MEDIAN

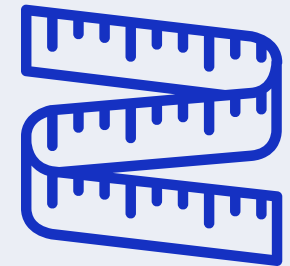


The median is the middle value in a set of numbers and sometimes gives a more valuable result than the mean as this is less likely to be skewed by outliers. To calculate the mean, select the middle value from the waiting times. Result: 151.

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04

**CALCULATE
MODE and RANGES**



The mode is the value that occurs most in a data set. Result: 151 minutes appears twice in our data set so the mode is 151. Ranges help us understand the parameters of our data, in this instance the shortest and longest wait times. Result: low is 62 and high is 416 minutes.