

Mean, median, mode, range: measures of centre and spread

MODULE 7 · DATA, CHANCE AND THE CO-ORDINATE PLANE DATA & CHANCE

HOW TO ANSWER TODAY

- **Median (middle).** Put the numbers in ORDER. The median is the middle one. If two middles, take their mean.

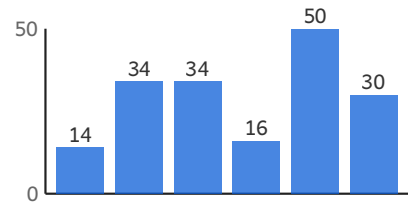
1, 3, 5, 7, 9 → median 5 · 2, 4, 6, 8 → middles 4 and 6 → median 5

- **Mean (average).** Add ALL the numbers. Divide by HOW MANY there are.

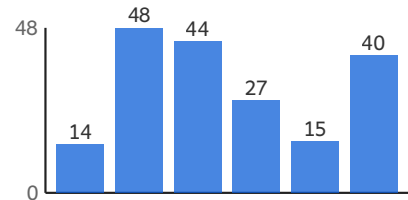
Mean of 2, 5, 6, 9 → $(2+5+6+9) \div 4 = 22 \div 4 = 5.5$

STRETCH PROBLEMS

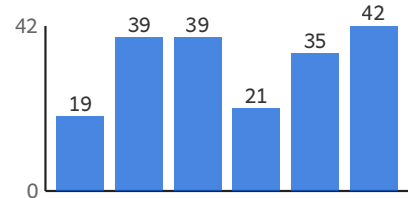
- 1 Mr Daly's 5th class tracked the rainfall on six rainy days during a fortnight in October. The amounts in millimetres were **14**, **34**, **34**, **16**, **50** and **30**. What is the median rainfall across these six days?



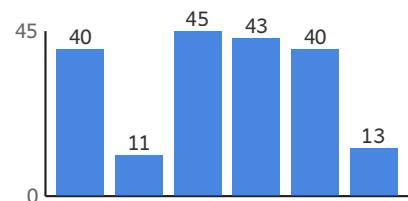
- 2 For a science investigation, Saoirse times how many seconds it takes for water to trickle through six different soil samples. The times are **14**, **48**, **44**, **27**, **15** and **40 seconds**. What is the median time?



- 3 Six pupils in 5th class track their pocket money in euro across the half-term. The amounts saved are **€19**, **€39**, **€39**, **€21**, **€35** and **€42**. What is the mean amount saved?



- 4 Aoife records the points her 5th class team won in each round of the school quiz. The points are **40**, **11**, **45**, **43**, **40** and **13**. What is the mean score?



- 5 Cian tallies the cars by colour passing the school on the main road during a traffic survey. He counts **39** blue, **23** red, **14** black, **48** white, **17** silver and **39** grey. What is the mean number of cars per colour?

