

HANDLING DATA

Pupils should be taught to:

Calculate statistics from data, using ICT as appropriate, finding the mode, mean, median and range (continued)

As outcomes, Year 7 pupils should, for example:

Calculate statistics. For example:

- A competition has three different games. Jane has played two of the games.

	Game A	Game B	Game C
Score	62	53	

To win, Jane needs a mean score of 60. How many points does she need to score in game C?

- Phil has these four cards. The mean is 4.

1	8	5	2	
1	8	5	2	?

Phil takes another card. The mean of the five cards is still 4. What number is on his new card?

- Rajshree has six cards.

10	10	10	10	?	?
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The six cards have a mean of 10 and a range of 6. What are the numbers on the other two cards?

- I can catch either a Direct bus or a Transit bus to go home. For my last five journeys on each bus, this is how long I had to wait:

Direct bus	10min	8min	5min	9min	8min
Transit bus	16min	1min	2min	15min	1min

Calculate the mean of the waiting time for each bus. Decide which bus it would be more sensible to catch. Explain why.

- Five careful measurements were made to find the mass of a nugget of gold. The five measurements were: 2.003 2.012 1.998 2.000 1.989 ounces. Find the mean of the five measurements.

See Y456 examples (pages 116–17).