

Essential Skills 12

The questions in this series of worksheets appear frequently.

These are the GIFTS you must take to succeed



Standard Deviation (Calculator)

Calculate the mean and the standard deviation of each:

1. 14, 17, 15, 23, 20, 19
2. 8, 13, 7, 6, 8, 9, 5
3. 1.8, 3.7, 4, 2.6, 5.9
4. 102, 108, 112, 109, 110, 107
5. 47, 56, 61, 52, 59
6. 1, 2, 4, 1, 3, 2, 1
7. 9, 14, 11, 13, 8, 11
8. 33, 39, 40, 38, 35
9. 1305, 1301, 1298, 1300, 1295, 1307
10. 41, 35, 33, 46, 38



APPLYING QUESTION

The prices, in pence, at five petrol stations around Airdrie for a litre of unleaded are:

121 119 120 117 118

- (a) Calculate the mean and standard deviation.
- (b) Why do you think the standard deviation must be so low?
- (c) If each petrol station had to put their price up by 4 pence what effect would it have on the mean and standard deviation?

