

Compare Data with Range and Average- Level 5 - Review

Exercise A - Calculate the range for each of these data sets:

- a. 12, 5, 7, 9, 3, 8
- b. 15, 10, 11, 32, 18, 17, 23
- c. 23, 17, 40, 25, 18, 36, 39

Exercise B - At a school 6 groups take a test. The range and one of the averages is found for each group and these are shown below. Try to make a comparison of the each pair of groups' results.

Group	Mean	Range
11X(1)	51%	12%
11Y(1)	48%	24%

Group	Median	Range
11X(2)	51%	18%
11Y(2)	50%	19%

Group	Mean	Range
11X(3)	52%	12%
11Y(3)	56%	29%

Compare Data with Range and Average- Level 5 - Review

Exercise A - Calculate the range for each of these data sets:

a. 12, 5, 7, 9, 3, 8 $12 - 3 = 9$

b. 15, 10, 11, 32, 18, 17, 23 $32 - 10 = 22$

c. 23, 17, 40, 25, 18, 36, 39 $40 - 17 = 23$

Exercise B - At a school 6 groups take a test. The range and one of the averages is found for each group and these are shown below. Try to make a comparison of the each pair of groups' results.

Group	Mean	Range
11X(1)	51%	12%
11Y(1)	48%	24%

The larger range of 11Y(3) may have been due to a few students obtaining high scores and this could have been the reason for the higher mean.

Group	Median	Range
11X(2)	51%	18%
11Y(2)	50%	19%

The groups medians and ranges are almost identical. This shows that the groups have obtained very similar results.

Group	Mean	Range
11X(3)	52%	12%
11Y(3)	56%	29%

The larger range of 11Y(1) shows a greater spread of results. Perhaps a few students have low marks and this has lowered the mean.