

## Timester Challenge Averages and Range

## $3,10,9,5,4,5$

a) Write down the mode
b) Find the median
c) Work out the mean
d) Work out the range

Here are the test marks of 8 boys and 5 girls

| Boys | 4 | 7 | 2 | 6 | 4 | 5 | 4 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Girls | 3 | 6 | 8 | 4 | 9 |  |  |  |

a) Whose results are more consistent? Give a reason for your answer.
b) Work out the median mark of the boys results.
c) Work out the mode of the girls results

The diagram shows information about the scores of class A and class B in a mental maths test.

## Class A



Class B

score
A student is chosen at random from Class A. Work out the probability that the student's score was the mode for the class.

Show that Class A had more consistent scores than Class B.
$3,10,9,5,4,5$
$3,4,5,5,9,10$
a) Write down the mode 5
b) Find the median 5
c) Work out the mean

$$
\frac{36}{6}=6
$$

d) Work out the range

$$
10-3=7
$$

Here are the test marks of 8 boys and 5 girls The diagram shows information about the scores

| Boys | 4 | 7 | 2 | 6 | 4 | 5 | 4 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Girls | 3 | 6 | 8 | 4 | 9 |  |  |  |

a) Whose results are more consistent?

Give a reason for your answer.
Boys Range $7-2=5$
Girls Range $9-3=6$
Boys are more consistent - lower range.
b) Work out the median mark of the boys results.
$2,2,4,4,4,5,6,7$
Boys median is 4
c) Work out the mode of the girls results
$2,2,3,4,4,4,4,5,6,6,7,8,9$
Mode is 4
Silver


A student is chosen at random from Class A. Work out the probability that the student's score was the mode for the class.

$$
\frac{8}{22}=\frac{4}{11}
$$

Show that Class B had more consistent scores than Class A. Range A: 5-1 = 4

Range B: 5-2 = 3
Class $B$ is has more consistent results ${ }_{\text {Gold }}$

