## Menorable words

Hey Diddle, Diddle, The median's the middle, We add and divide for the mean,
The mode is the one that occurs the most,
And the range is the difference between.

Developing nethods
Match the word to the working out for the following numbers:

$$
1,1,3,3,3,4,6
$$



## A very Average topic

LO: Calculate different types of averages and a measure of spread.

## The meanest one of all!

Find the Mean of the following data sets:
(a) 5634453613127
(b) 4564559271359
(c) $15 \quad 2314 \quad 15 \quad 30 \quad 1619 \quad 22 \quad 18 \quad 23 \quad 32$
(d) $2523 \quad 313025252424262721$
(e) 5451545154515451541554


Find the Median of the following data sets:
(a) 5634453613127
(b) 4564559271359
(c) $15 \quad 231415 \quad 301619 \quad 2218 \quad 23 \quad 32$
(d) 2523313025252424262721
(e) 5451545154515451541554

| Mode | Median |
| :--- | :--- |
| Range |  |

(a) 563445361312
(b) blue, red, blue, black, red, blue
(c) $15 \quad 2314153016192218 \quad 23$
(d) 2523313025252424262721
(e) 5451545154515451541554
(a) 563445361312
(b) 456455927135
(c) $15 \quad 23 \quad 1415 \quad 301619 \quad 2218 \quad 23$
(d) 2523313025252424262721
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Three different whole numbers have a mean of 5 and a range of 4 . What are the 3 numbers?


There are 6 classes in Year 8.
The mean number of pupils per class is 27.
How many pupils are in Year 8?


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In Year 9 there are 156 pupils and 6 classes. What is the mean number of pupils per class?

Below are 5 cards in ascending order:


The range is 5 .
The mode is 5
The median is 5
What are the numbers on the other cards?

## The Puzzling Page

Mr Linge and Mr Rimmer had a competition to see who could get the highest score in darts...blindfolded.
After hours of attempts they finally stopped. Here is the data from their scores. Who is the best blind-darts player?

|  | Mr Linge | Mr Rimmer |  |
| :---: | :---: | :---: | :---: |
|  | 65 | 75 |  |
|  | 74 | 20 |  |
|  | 21 | 30 |  |
|  | 34 | 69 |  |
|  | 65 | 68 |  |

Find the missing number $(\mathrm{X})$ in each of the questions below:
(a) Mean $=6\{4,5,6,7,8, \mathrm{X}\}$
(b) Mean $=4\{3,2,6,5, X\}$
(c) Mean $=2\{5,0,4,1, x\}$
(d) Mean $=3\{6,5,5,1,1,1, X\}$
(e) Mean = $1\{5,4,4,9,0, X\}$

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From a list of 7 numbers the mean was calculated to be 6.3.
If only one more number is added, what number be if the new mean is 8 ?

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## Exam Practice

Jenny sends out party invitations.
The number of replies she receives each day, for the next seven days, is given below.
(a) (i) Write down the mode
(ii) Work out the median
$\qquad$
(iii) After seven days Jenny has replies from half of the people invited. How many people has she invited?

Answer

(b) After eight days the mean number of replies is 4.5 per day Work out the number of replies she receives on the eighth day

> Answer

Five people, Arnie, Beth, Chas, Dave and Ed weigh themselves. You are given the following information about their weights.

The mean weight of Amie, Beth and Chas is 70 kg The mean weight of Beth, Chas and Dave is 76 kg The mean weight of Chas, Dave and Ed is 77 kg . Chas and Ed weigh the same.
Arnie weighs 75 kg .
Find the weights of the other four people.

Jane and Mitzi have both done the same number of practice papers for their mathematics examination.
They both have the same total mark, $T$
They do one more practice paper
Jane scores 89 and her average score increases to 68. Mitzi scores 57 and her average score decreases to 64

Find the final number of practice papers taken by each student You must show your working

