

Year 6 – Summer Block 3 – Statistics – The Mean

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 6: (6S3) [Calculate and interpret the mean as an average](#)

More [Year 6 Statistics](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Year 6 – Summer Block 3 – Statistics
Good morning, Year 6. It's 14th May 2020

Part 1: Fluency

**WALT Calculate the
Mean**

*See my notes in green to
help you.*

Introduction

Complete the column additions below.

$$\begin{array}{r} \boxed{7} \\ \boxed{1} \ \boxed{?} \\ \boxed{6} \\ \boxed{4} \\ \hline \boxed{?} \ \boxed{8} \end{array}$$

$$\begin{array}{r} \boxed{1} \ \boxed{6} \\ \boxed{?} \ \boxed{3} \\ \boxed{3} \ \boxed{5} \\ \boxed{2} \ \boxed{5} \\ \hline \boxed{9} \ \boxed{?} \end{array}$$

$$\begin{array}{r} \boxed{1} \ \boxed{?} \ . \ \boxed{2} \\ \boxed{2} \ \boxed{1} \ . \ \boxed{6} \\ \boxed{5} \ . \ \boxed{1} \\ \boxed{3} \ \boxed{4} \ . \ \boxed{3} \\ \hline \boxed{?} \ \boxed{2} \ . \ \boxed{?} \end{array}$$

Complete the divisions below.

$$\boxed{9} \ \boxed{8} \div \boxed{?} = \boxed{1} \ \boxed{4}$$

$$\boxed{3} \ \boxed{6} \div \boxed{8} = \boxed{4} \ . \ \boxed{?}$$

$$\boxed{?} \ \boxed{6} \div \boxed{8} = \boxed{9} \ . \ \boxed{5}$$

$$\boxed{6} \ \boxed{3} \div \boxed{?} = \boxed{7}$$

Introduction

Complete the additions below.

$$\begin{array}{r} 7 \\ 11 \\ 6 \\ 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 16 \\ 23 \\ 35 \\ 25 \\ \hline 99 \end{array}$$

$$\begin{array}{r} 11.2 \\ 21.6 \\ 5.1 \\ 34.3 \\ \hline 72.2 \end{array}$$

Complete the divisions below.

$$98 \div 7 = 14$$

$$36 \div 8 = 4.5$$

$$76 \div 8 = 9.5$$

$$63 \div 9 = 7$$

Varied Fluency 1

Calculate the mean of these numbers.

77

14

58

9

13

21

Varied Fluency 1

Calculate the mean of these numbers.

77

14

58

9

13

21

$$(77 + 14 + 58 + 9 + 13 + 21) \div 6 = 32$$

Remember, the mean of a set of numbers is the total sum of the numbers divided by how many numbers there are.

Varied Fluency 2

Which is the correct mean of these children's house points.



17



19



21



15



13

16

17

18

Varied Fluency 2

Which is the correct mean of these children's house points.

$$(17+19+21+15+13)\div 5=17$$



17



19



21



15



13

16

17

18

Varied Fluency 3

True or false?
The mean of these numbers is 19.

6

11

17

24

9

53

Varied Fluency 3

True or false?
The mean of these numbers is 19.

6

11

17

24

9

53

False

$$(6 + 11 + 17 + 24 + 9 + 53) \div 6 = 20$$

Varied Fluency 4

Six friends weigh 71.5kg, 56.3kg, 70.1kg, 66.9kg, 58.7kg and 60.5kg.



What is their mean weight?

Varied Fluency 4

Six friends weigh 71.5kg, 56.3kg, 70.1kg, 66.9kg, 58.7kg and 60.5kg.



What is their mean weight?

$$(71.5 + 56.3 + 70.1 + 66.9 + 58.7 + 60.5) \div 6 =$$

64kg

Well done! It's over to you now.

Go to Part 2 and choose your challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first set of questions on your chosen challenge – the 'A' questions. If you want extra practice, you can then do the 'B' questions of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.