### Week 5\_Maths\_Lesson 3

### Lesson 3

## L.O: I am learning to find the mean average (1).

All	All of you must complete the fluency section.
Most	Most of you will compete the fluency and reasoning sections.
Some	Some of you will complete the fluency, reasoning, and problem-solving sections.

Try your best – it is all we can ask for!  $oldsymbol{c}$ 

This video may help if you are stuck at any point: https://www.youtube.com/watch?v=x8oPXIrLMc0

# Fluency

Key vocabulary: Mean, Average,	Total, Product	Your answer
Complete the stem sentence To calculate the mean average, we the by the number of		To calculate the mean average, we divide the total by the number of items.
		Number of children = 3 15 ÷ 3 = 5 The mean number of apples eaten is 5.
Total number of apples =	_	
Number of children = ÷ =		
The mean number of apples eaten	is	
After school, Jerry read 15 pages of h Darcey read 14, Alfie read 8 and /	is reading book, Aillie read 11.	The mean number of pages they read is 12.
What is the mean number of pages they read?	I SA ANA	
Ranjit went running over the bank hol	iday weekend.	Ranjit ran 6km on Sunday.
Day	Distance	
Saturday	7	
Sunday		
Monday	11	
If his mean running distance is a many km did he run on Sun	3km, how day?	

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#### Key vocabulary: Mean, Average, Total, Product Your answer 3a. Felicia has worked out the mean of Felicia is incorrect because it does not matter four numbers: 9, 4, 6 and 5. which order the numbers are put in before they are added together. To work out the mean, you must put the numbers in order first, before you divide by 4. Do you agree with Felicia? Why? D – I do not agree with Anita. The number of school lunches ordered by each class A – The mean number of school lunches per in Anita's school is shown in the table below... class is not 14 Reception 12 B – The total number of dinners is 84. Anita has 15 Year 1 divided this by 6 to get the mean 14 but there are 7 classes altogether. $84 \div 7 = 12$ so the mean Year 2 9 number of school lunches per class is 12. Year 3 13 Year 4 11 Year 5 14 10 Year 6 Anita says... The mean number of school lunches per class is 14. Do you agree with her? Explain your reasoning! D – Marlon could be correct. The mean of Marlon's video game high scores is 200. A – His high scores could have been 160 in both February and April. Hiah Score Dav B – The mean score is 200 and his data covers 6 85 January months. $200 \times 6 = 1,200$ so the high scores must February come to a total of 1,200. The scores for January, March, May and June total 880 so February and March 149 April's scores must have a sum of 320 because April 1,200 - 880 = 320. This means that the high 271 Mav scores could have been 160 in both February and 375 June April, but they could have been any two numbers which have a sum of 320. For example, his high He says... score could have been 100 in February and 220 in April. My high scores must have been 160 in both February and April. Is he correct? Prove it!

## Reasoning

# Key vocabulary: Mean, Average, Total, Product Your answer 4a. Lucie knows that the mean of her Any two numbers with a sum of 10. cards is 5. 9 2.5 6.5 2 She spilled paint on two of her cards. What could the missing numbers be? 5a. Four friends are trying to work out their 185 + 180 + 187 + 184 = 736cm; 736cm ÷ 4 = 184cm mean height. Aisha is 3cm smaller than Zain. Zain is 7cm taller than Marie. Marie is 5cm smaller than Oliver. Oliver is 185cm tall. What is their mean height?

# **Problem Solving**

## Extension

Key vocabulary: Mean, Average, Total, Product	Your answer
Work out the age of each member of the family if: Mum is 48 years old.	Mum 🔯 48
Teddy is 4 years older than Jack and 7 years older than Alex.	Dad 0 52
Mum Dad Dad	Teddy 🧑 15
Teddy 💓 — Mean age of 13	Jack 🧐 11
Alex Mean age of 6	Alex 6
Eva 🧑 🗍 Hearinge of o	Eva 🧐 4
Calculate the mean age of the whole family.	