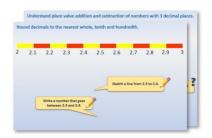
### Week 8, Day 4

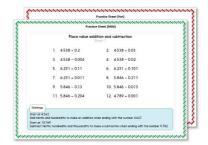
# Finding the mean (2)

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

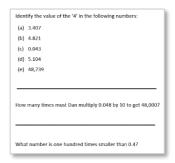


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

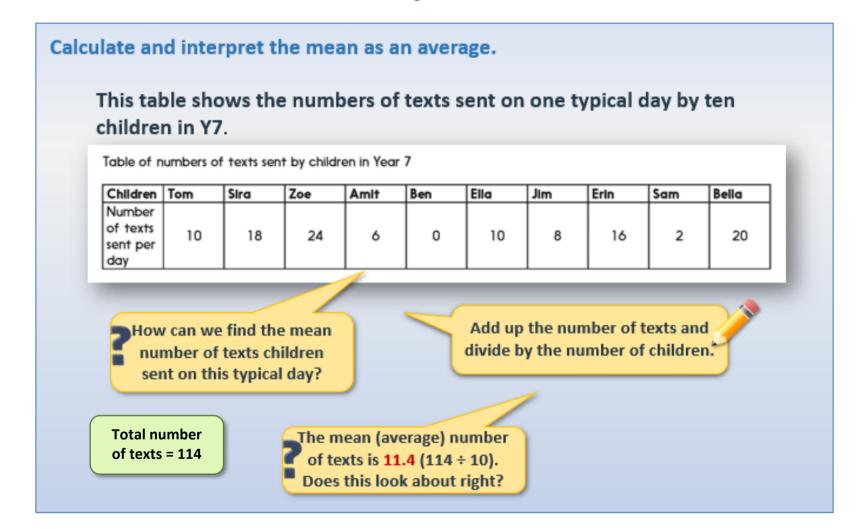


4. Have I mastered the topic? A few questions to Check your understanding.

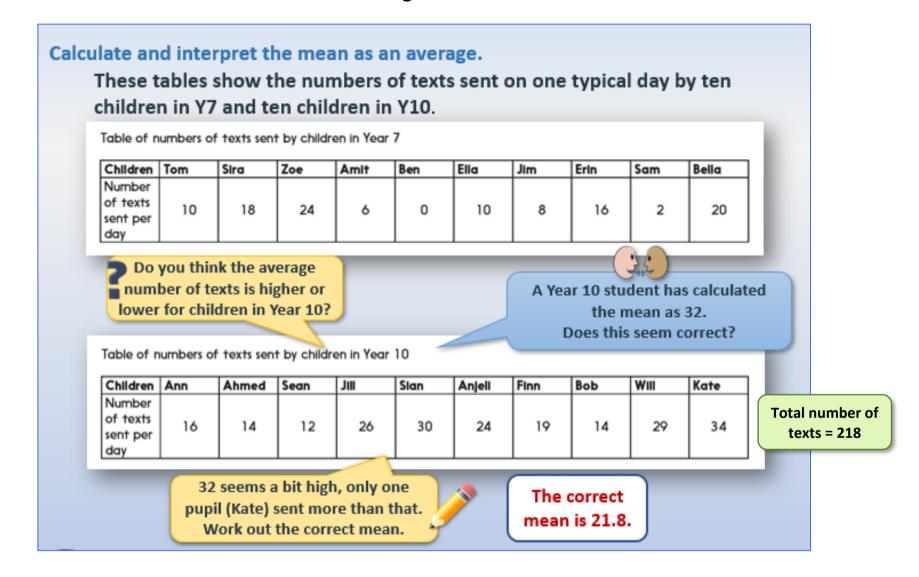
Fold the page to hide the answers!



#### **Learning Reminders**



#### **Learning Reminders**



# **Practice Sheet for All** Finding the mean

#### Lengths completed in the swimming lesson

Livvy	Livvy Malik		Izzy	Jacob	Daisy	
10	6	8	14	20	17	

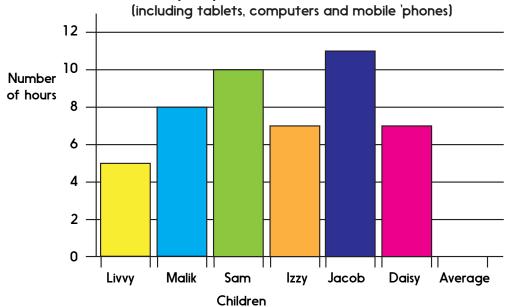
1. Find the average (mean) number of lengths completed by the six friends, accurate to one decimal place.

#### Number of words correctly spelt in the sponsored spell.

Livvy	Malik	Malik Sam		Jacob	Daisy
15	19	18	12	14	17

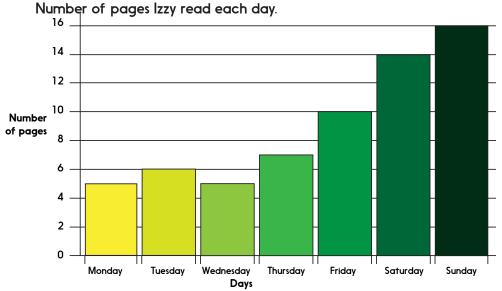
2. Children were given 20 words to learn for the sponsored spell. Work out the average number of words the friends spelt correctly, accurate to one decimal place.

Hours spent per week on electronic devices



3. Draw a bar to show the average time spent by these children per week on electronic devices.





4. Predict, then calculate the average number of pages Izzy read each day.

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# Practice Sheet for All (continued) Finding the mean

#### Challenge

Hot: Tackle this Challengel

1. Write four numbers to make these five numbers have an average of 6.

2. Write ten numbers with a mean of 4.5.

## **Practice Sheet Answer**

#### Finding the mean

- 1. Average number of lengths swam = 12.5
- 2. Average number of words spelt correctly = 15.8
- 3. Average time spent on electronic devices = 8 hours
- 4. Average number of pages Izzy read each day = 9

#### Challenge

- 1. Any four numbers with a total of 23 so that the total will be 30, to give a mean score of 6 (30 5).
- 2. 2. Any 10 numbers with a total of 45.

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# A Bit Stuck? Change the dice

This dice has numbers 1 to 6 on its faces.



If each number was rolled once, the average (mean) would be 3.5.

$$1+2+3+4+5+6=21$$

$$21 \div 6 = 3.5$$

If we the change 6 to a 12, this would increase the average (mean):

$$1 + 2 + 3 + 4 + 5 + 12 = 27$$

$$27 \div 6 = 4.5$$

Calculate the average if we instead we change the 1 to a 7.

$$7 + 2 + 3 + 4 + 5 + 6 =$$

Now, find another way to increase the average to 4.5.

These six dice are rolled, with the results: 3, 2, 4, 5, 6, 4.

Calculate the average score.



The next six dice produce these scores:

8

3

8

7

4

6

And the last six dice produce these scores:

Find the average score in each case.

5

3

5

7

8

2

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### Check your understanding Questions

The friends have these amounts of money in their purses.

Jo: £5.50 Tim: £12 Sam: £4.60

Jill: £6.40 Fred: £8 Ann: £5.50

What is the average (mean) amount that they have?

Which children have less than this?

These are three children's spelling test scores. Calculate the average score for each child.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Nadiya	7	8	9	8	9	10	8	9
Dean	9	10	9	10	7	10	9	8
Emma	6	7	8	7	8	9	6	7

Fold here to hide answers

# Check your understanding Answers

The friends have these amounts of money in their purses.

Jo: £5.50 Tim: £12 Sam: £4.60 Jill: £6.40 Fred: £8 Ann: £5.50

What is the average amount that they have? £7 The total £42 divided by 6.

Which children have less than this? Jo, Sam, Jill and Ann.

These are three children's spelling test scores. Calculate the average score for each child.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Nadiya	7	8	9	8	9	10	8	9
Dean	9	10	9	10	7	10	9	8
Emma	6	7	8	7	8	9	6	7

Nadiya =  $8^{1}/_{2}$  or 8.5

Dean = 9

Emma =  $7^{1}/_{4}$  or 7.25