Flashback 4

Warm-Up Challenge

1) Write "38 out of 100" as a percentage.

2) What is the 3 worth is 6.103?

3) Work out $4\frac{3}{5} - 3\frac{1}{2}$

4) What is the mathematical name for a triangle with two equal sides and two equal angles?

Warm your brains up thinking about the above questions

White Rose Maths

Teaching Input:

Understand the mean as an average

Ajay has 8 sweets, Kari has 11 sweets and Anita has 11 sweets.

How could you find out the average amount of sweets the children have?

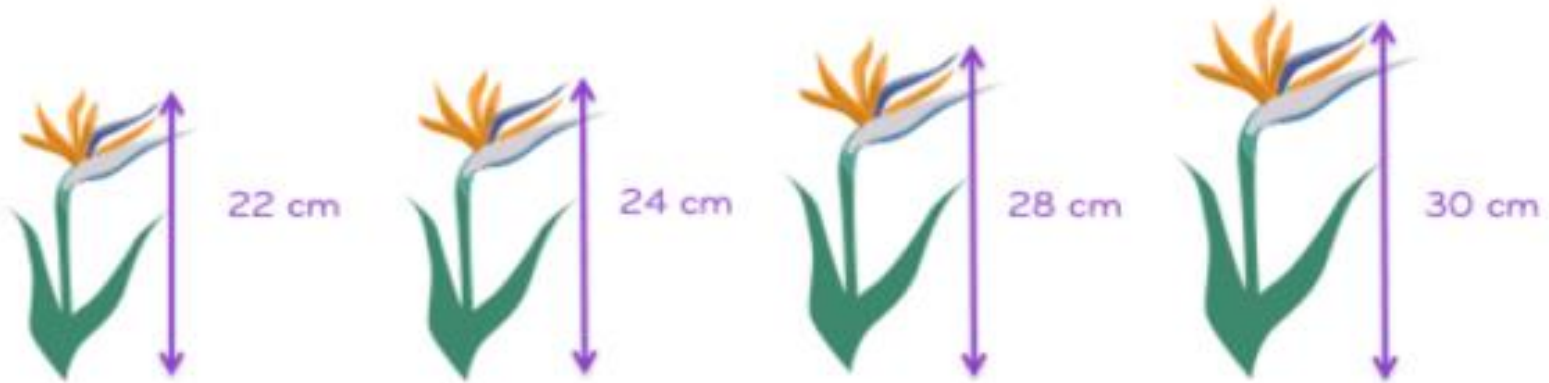
One way of finding an average amount is by finding the **mean**, which is the number of sweets each person would have if we **shared** them out **equally**.

Anita and Kari could give Ajay one each, so the mean would be 10.

Teaching Input:

Week 6 – Home Learning

Calculate means



But you can't always draw pictures or share out in your head.

So, we can find the mean in **two** steps.

Step 1. Add all the values together.

Step 2. Divide by how many values there are.

Can you find the mean height for these plants? _____ cm

Teaching Input:

Week 6 – Home Learning

Calculate means

Child	Number of lengths
Sam	15
Karen	18
Anna	21
Karl	21
Maajid	20

Find the **mean** number of lengths these children have swum.

lengths

Teaching Input:

Week 6 – Home Learning

Calculate means

Eric held his breath, **four** times, for as long as he could. Here are his results:

	How long I held my breath for
Attempt 1	155 seconds
Attempt 2	161 seconds
Attempt 3	162 seconds
Attempt 4	162 seconds

Use the two-step method to find the mean length of time Eric held his breath for.

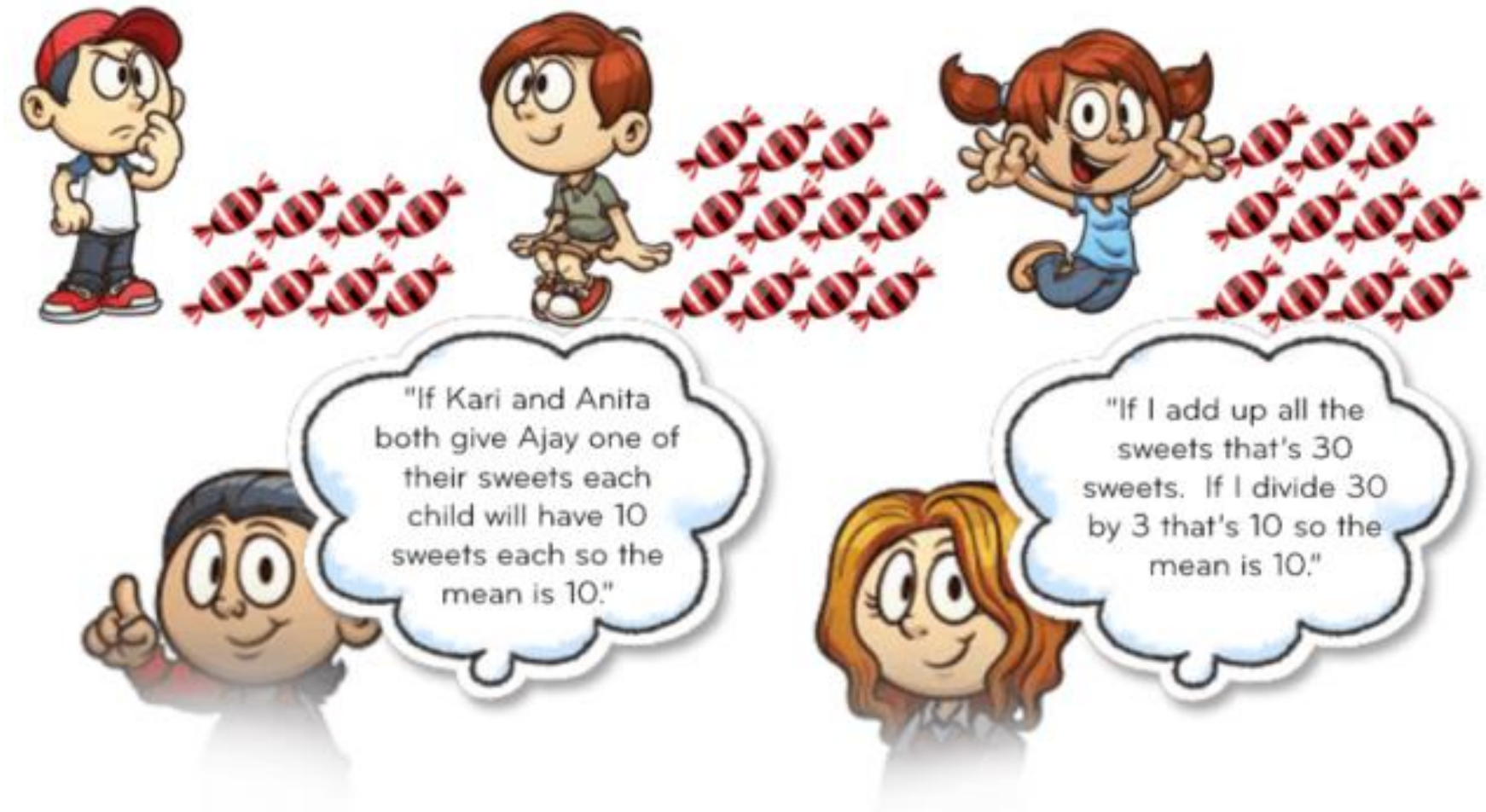
seconds

Teaching Input:

Week 6 – Home Learning

Understand the mean as an average

Ajay has 8 sweets, Kari has 11 sweets and Anita has 11 sweets.



Read each pupil's thoughts carefully. Which pupil is correct?

Teaching Input:

Week 6 – Home Learning

Practice time

1. Find the **mean** age of these football players.

2. The **mean** of three numbers is 30. Two of the numbers are 28 and 29. What is the other number?

Independent Activity: *Now grab a pen and paper and see how many questions you can answer*

Week 6 – Home Learning

1 Scott has 2 counters.

Dani has 7 counters.

Kim has 3 counters.

Share the counters evenly in order to find the mean number of counters.

The mean number of counters is ☐

2 Find the mean of each set of numbers.

a) 3 2 7 4 4

b) 12 8 15 11 6 2

c) 5 2 2 9 7 5 6 5 3 7

3 Huan collects football cards.

The table shows how many he collected over four years.

Work out the mean number of cards collected per year.

Year	Number of cards
2016	56
2017	104
2018	81
2019	103

4 **a)** The mean of four numbers is 9

What is the total of the four numbers?

b) Write an example of what the four numbers could be if none of them are 9

Compare answers with a partner.

How many different solutions can you find?

5 The table shows how many pets a number of children have.

One value is missing.

Name	Number of pets
Brett	4
Nijah	0
Rosie	1
Teddy	2
Esther	
Tom	7

The mean number of pets is 3

How many pets does Esther have?

Optional Brain Tickler:

Six numbers are written on cards.

The mean of the numbers is 12

Fill in the two missing numbers if one is double the other.

13 ☐ 4 16 6 ☐

Mastery Challenge:

How many ways?

The average of three numbers is 9.

The difference between the smallest and largest number is 5.

What could the numbers be?

Level 1: I can find a way

Level 2: I can find different ways

Level 3: I know how many ways there are