Diving into Mastery

The Mean

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Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

Diving

Deeper

Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

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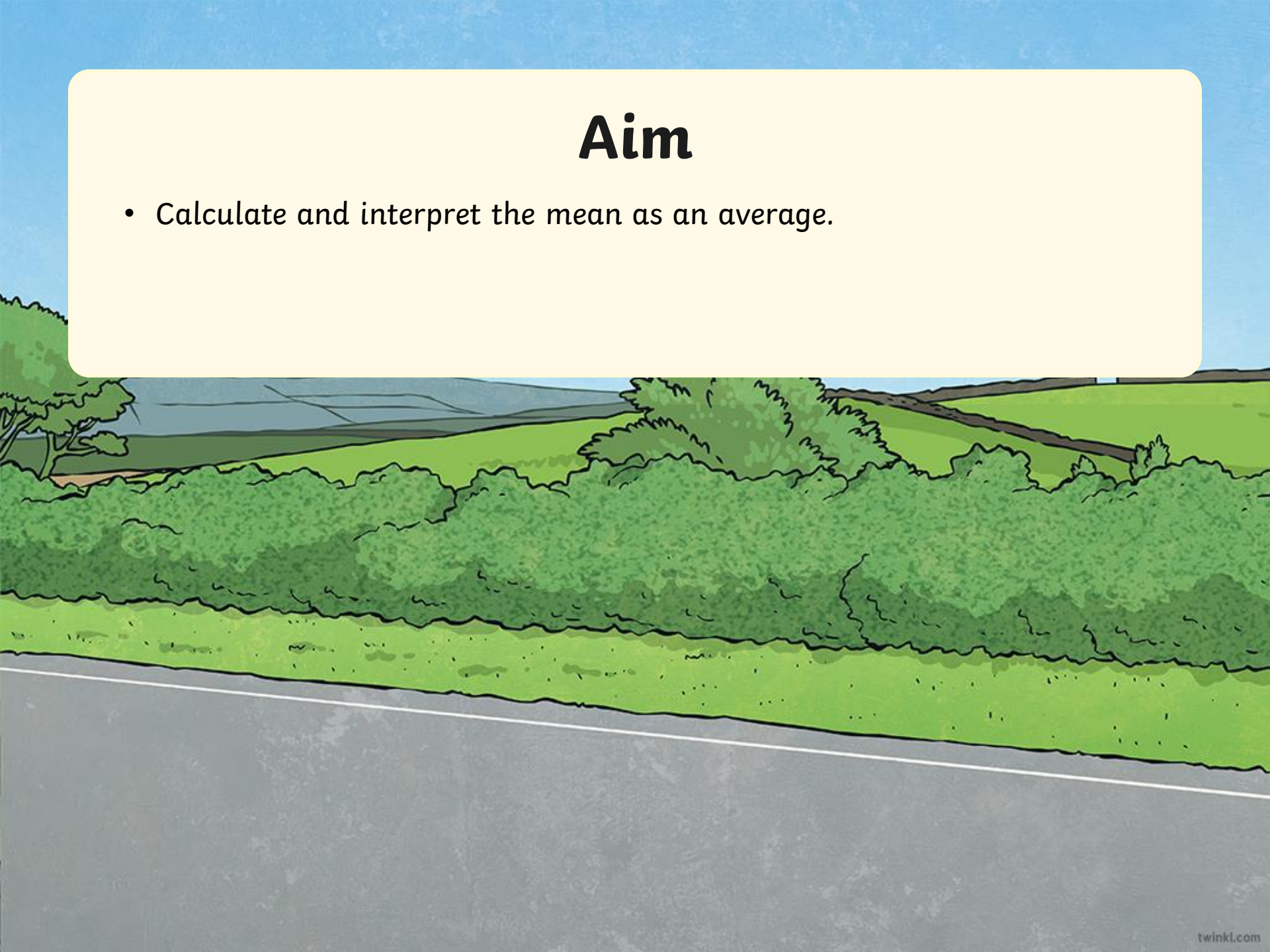
Aim

- Calculate and interpret the mean as an average.



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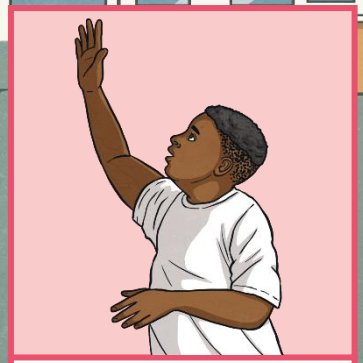
The Mean | **Diving**

The mean is the size of each part when a quantity is shared equally.

mean = sum of numbers in the set ÷ the number of values that make up the set.

These pictures show the number of goals each child scored in a netball tournament.



Find the mean number of goals scored.

2 + 5 + 7 + 6 = 20 **20 ÷ 4 = 5**

The mean number of goals scored was 5.

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The Mean | **Deeper**

mean = sum of numbers in the set ÷
the number of values that make up the set.

Explain whether each of the statements is true or false.

Group A

Name	Height
Ruth	117cm
Hamza	122cm
Rudi	121cm

Group B

Name	Height
Hannah	122cm
Josef	124cm
Faris	125cm
Danni	115cm
Tarjinder	124cm

Group C

Name	Height
Marlon	124cm
Kasturi	118cm
Seb	122cm
Ellie	132cm

If a child measuring 140cm joined group A, this group would now have the tallest mean average height.

This is true. If a child measuring 140cm joined group A, then the new mean height of the group would be 125cm. This is 1cm taller than group C's mean height of 124cm.

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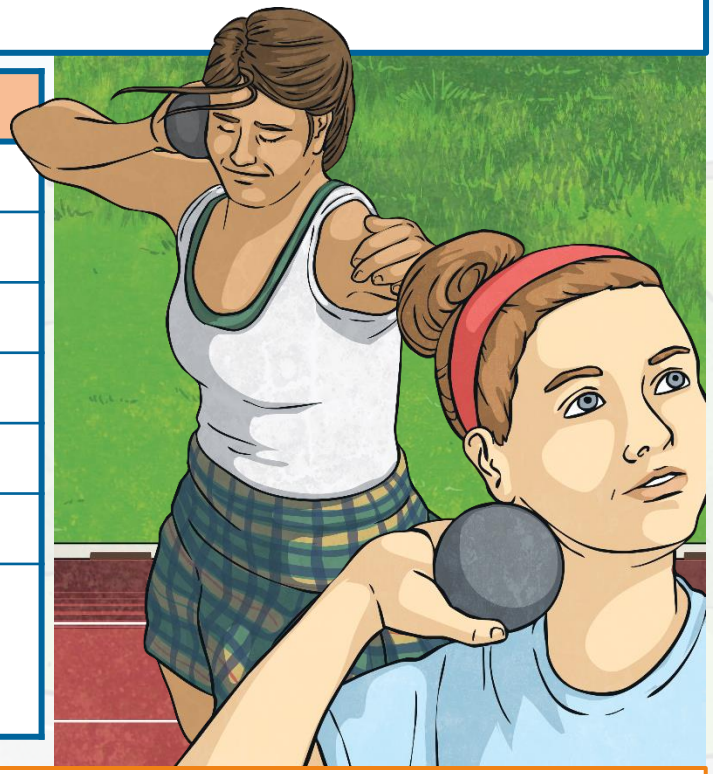
The Mean **Deepest**

mean = sum of numbers in the set ÷ the number of values that make up the set.

This table shows the distances thrown, in metres, during the shot putt event at an athletics competition.

	Malik	Lily	Amir
Throw 1	8.8	7.4	11.7
Throw 2	10	7.8	11
Throw 3	9.2	6.5	9.3
Throw 4	9	8.6	9.6
Throw 5	10.2	9.5	10.3
Throw 6	9.8	**8.2**	**11.1**
Mean Average Distance Thrown	**9.5**	8	10.5



Complete the table by finding the missing values.

sum of the numbers in the set = mean × the number of values that make up the set.

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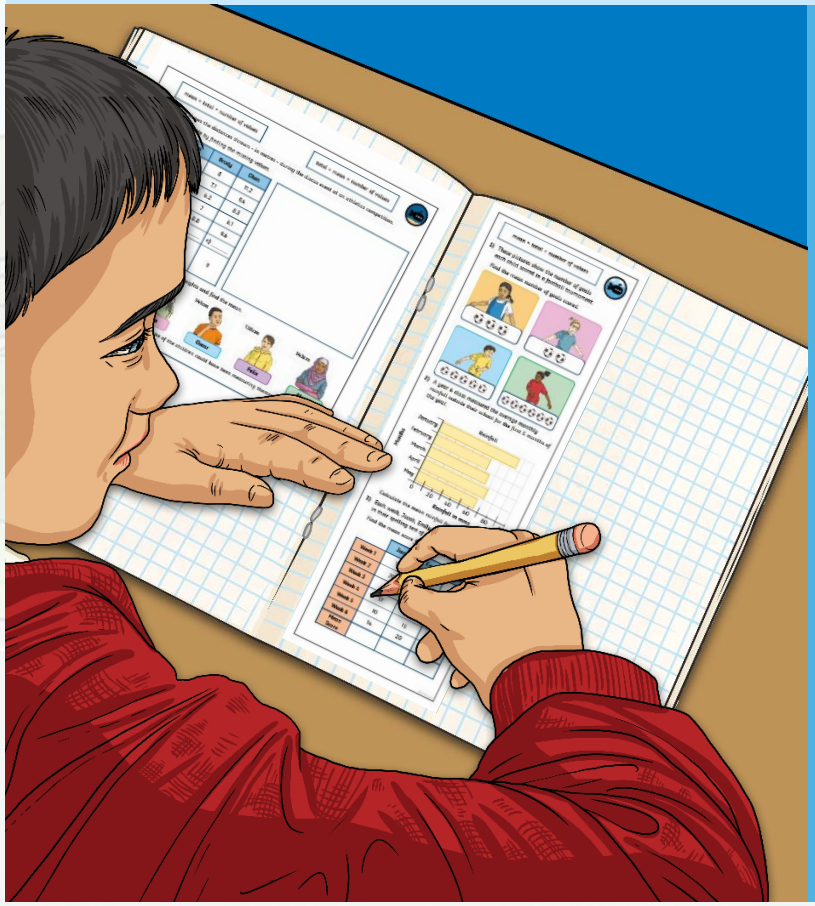
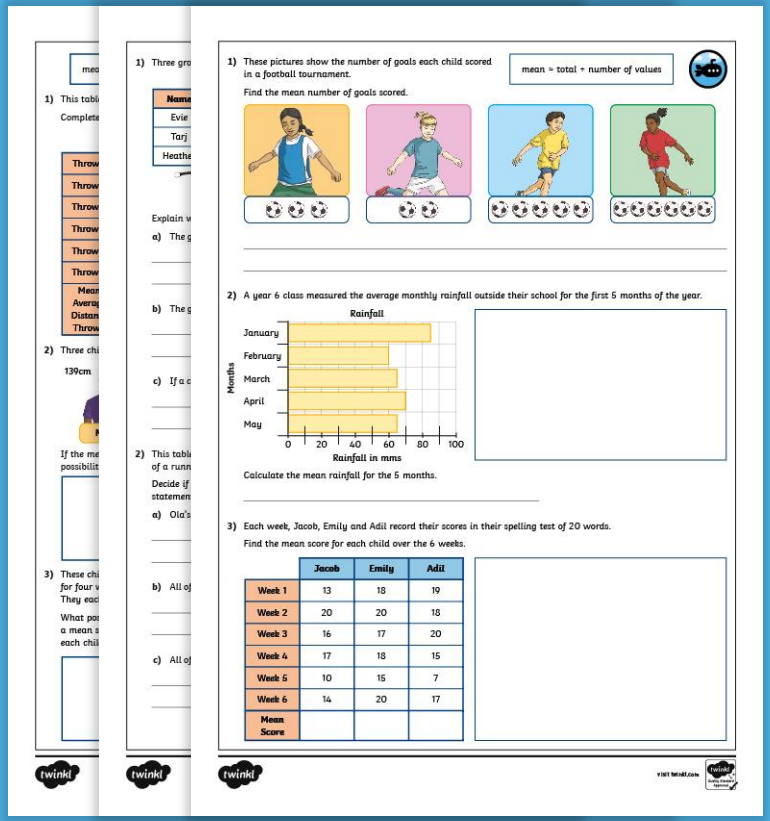
The Mean

Dive in by completing your own activity!





1) These pictures show the number of goals each child scored in a football tournament.

mean = total ÷ number of values

Find the mean number of goals scored.

2) A year 6 class measured the average monthly rainfall outside their school for the first 5 months of the year.

Calculate the mean rainfall for the 5 months.

3) Each week, Jacob, Emily and Adil record their scores in their spelling test of 20 words.

Find the mean score for each child over the 6 weeks.

	Jacob	Emily	Adil
Week 1	13	18	19
Week 2	20	20	18
Week 3	16	17	20
Week 4	17	18	15
Week 5	10	15	7
Week 6	14	20	17
Mean Score			

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Need Planning to Complement this Resource?

National Curriculum Aim

Calculate and interpret the mean as an average.

For more planning resources to support this aim, click here.

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