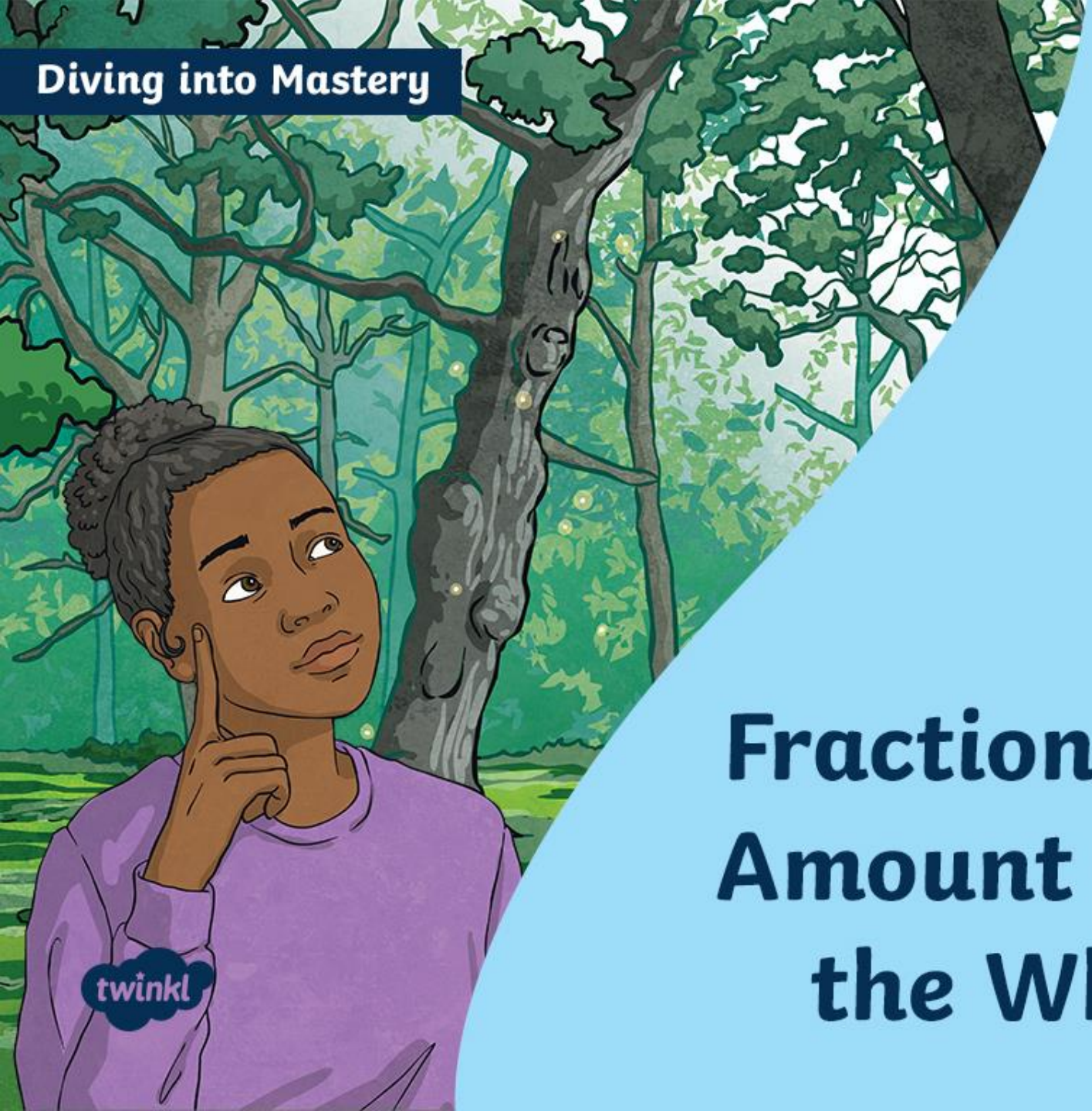
Diving into Mastery



Fraction of an Amount - Find the Whole

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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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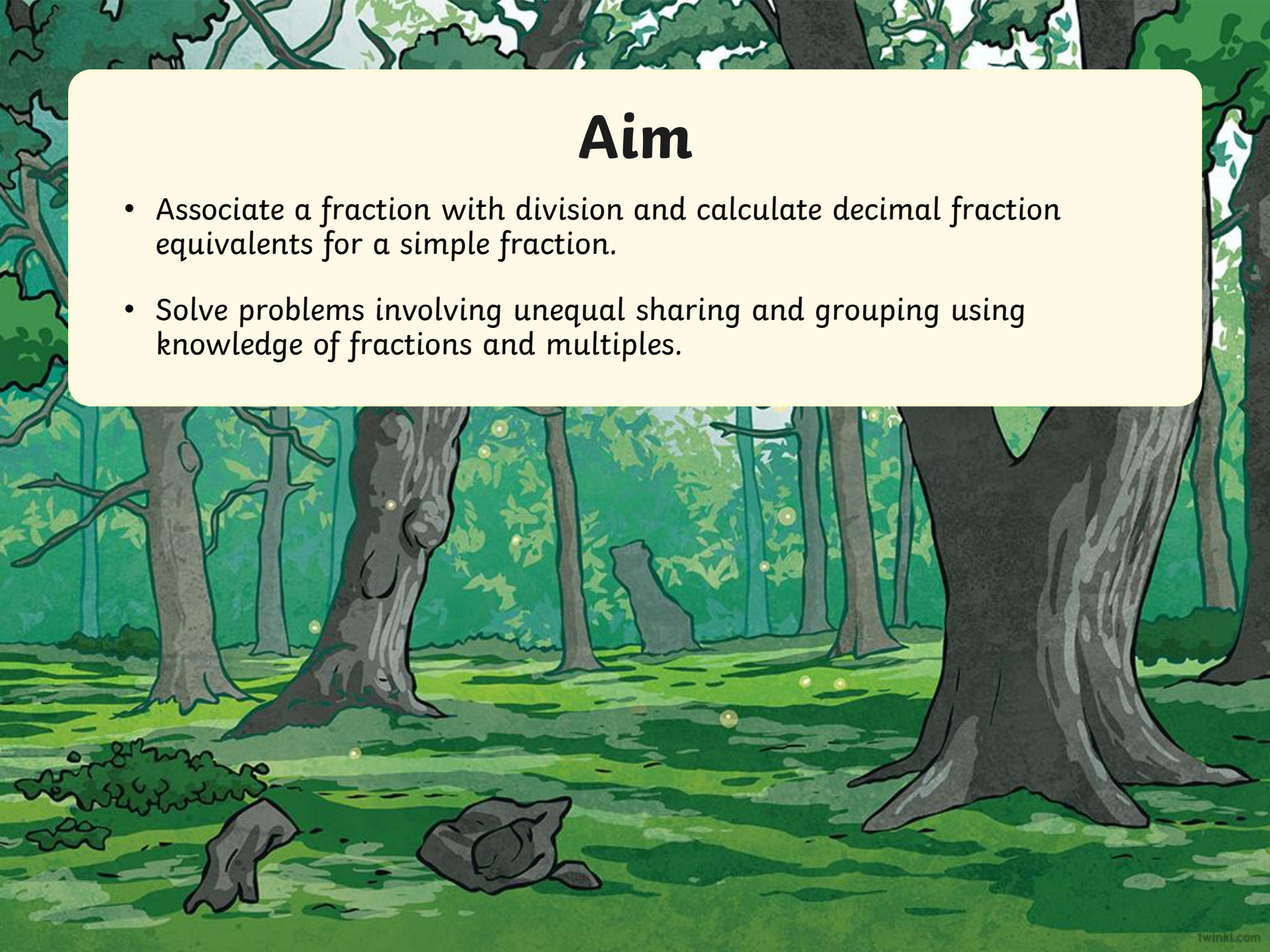

Aim

- Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

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Frac ount – e D

Use the information on the bar model to help you find what the whole is worth.

4m or 400cm

0.8m/80cm	0.8m/80cm	0.8m/80cm	0.8m/80cm	0.8m/80cm

1.6m

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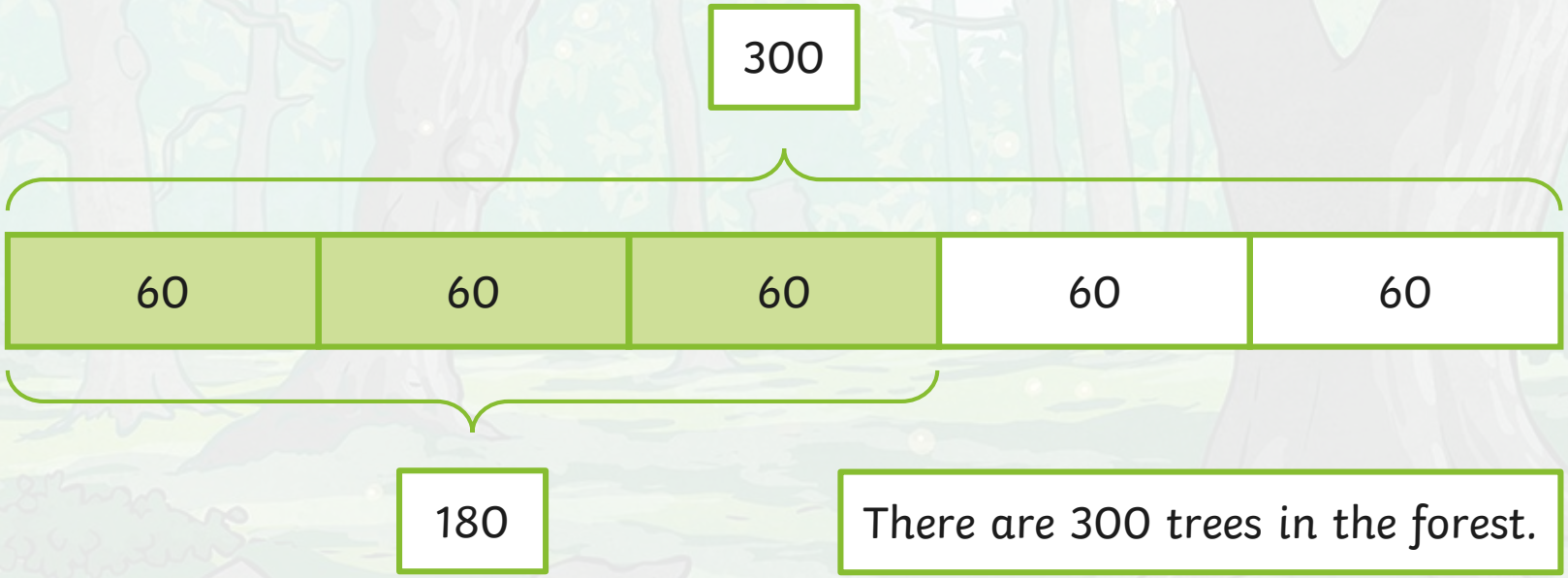
Fraction of an Amount – Find the Whole

Diving

Use a bar model to represent and solve this problem:

$\frac{3}{5}$ of the trees in a forest are acorn trees. There are 180 acorn trees.

How many trees are there altogether in the forest?



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Fraction of an Amount – Find the Whole

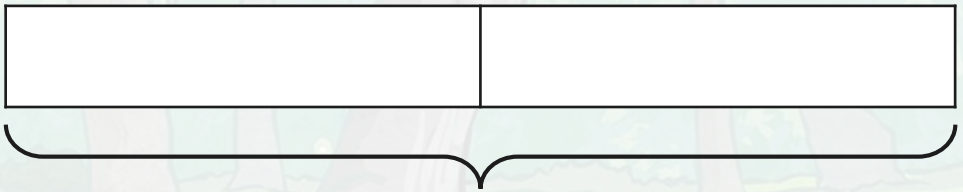
Deeper

Grace and Adam are cutting up pieces of ribbon.

Grace cuts her ribbon into five equal pieces. Here are three of the pieces:

42cm

Adam cuts his ribbon into six equal pieces. Here are two of the pieces:



26cm

Do you agree or disagree with Grace? Explain your reasoning.

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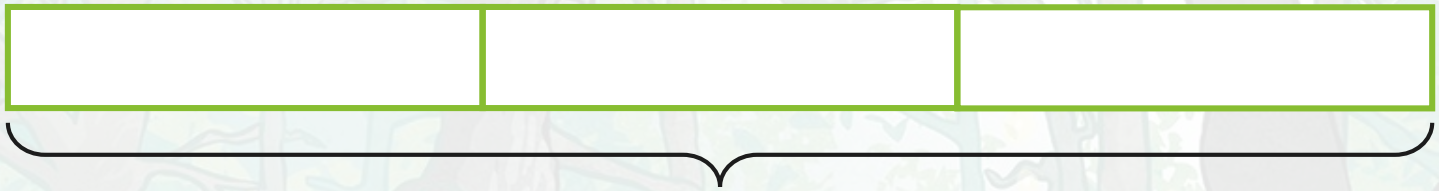
Fraction of an Amount – Find the Whole

Deeper

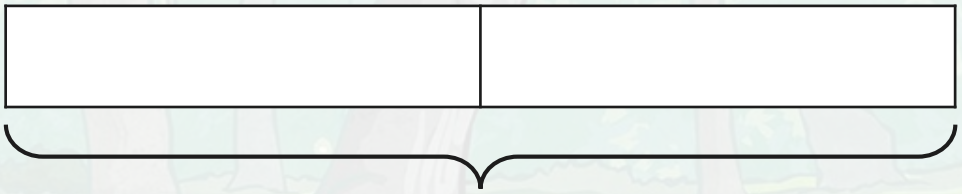
Grace and Adam are cutting up pieces of ribbon.

Grace cuts her ribbon into five equal pieces. Here are three of the pieces:



42cm

Adam cuts his ribbon into six equal pieces. Here are two of the pieces:



26cm

The total length of her ribbon before cutting was 14cm × 5, which is 70cm.

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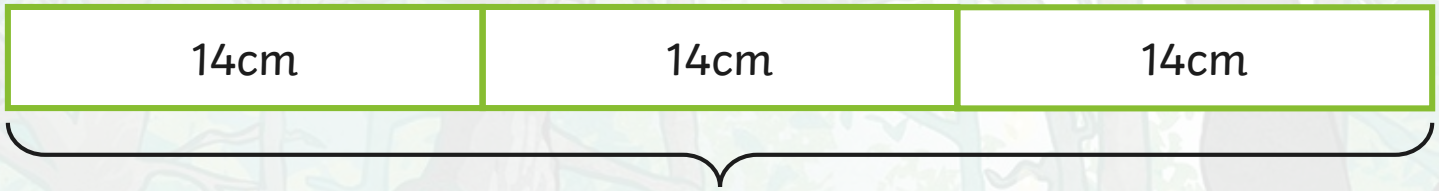
Fraction of an Amount – Find the Whole

Deeper

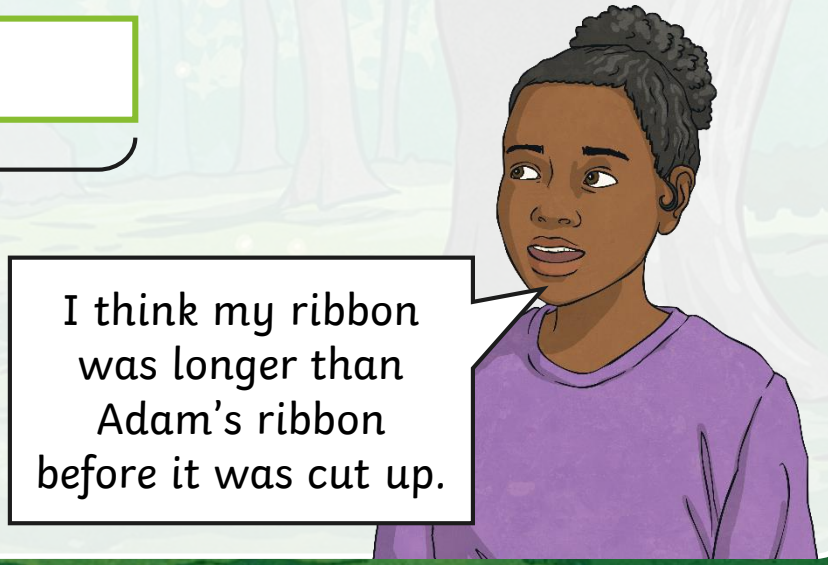
Grace and Adam are cutting up pieces of ribbon.

Grace cuts her ribbon into five equal pieces. Here are three of the pieces:



Adam cuts his ribbon into six equal pieces. Here are two of the pieces:

Adam's ribbon was longer before it was cut up, so Grace is wrong.



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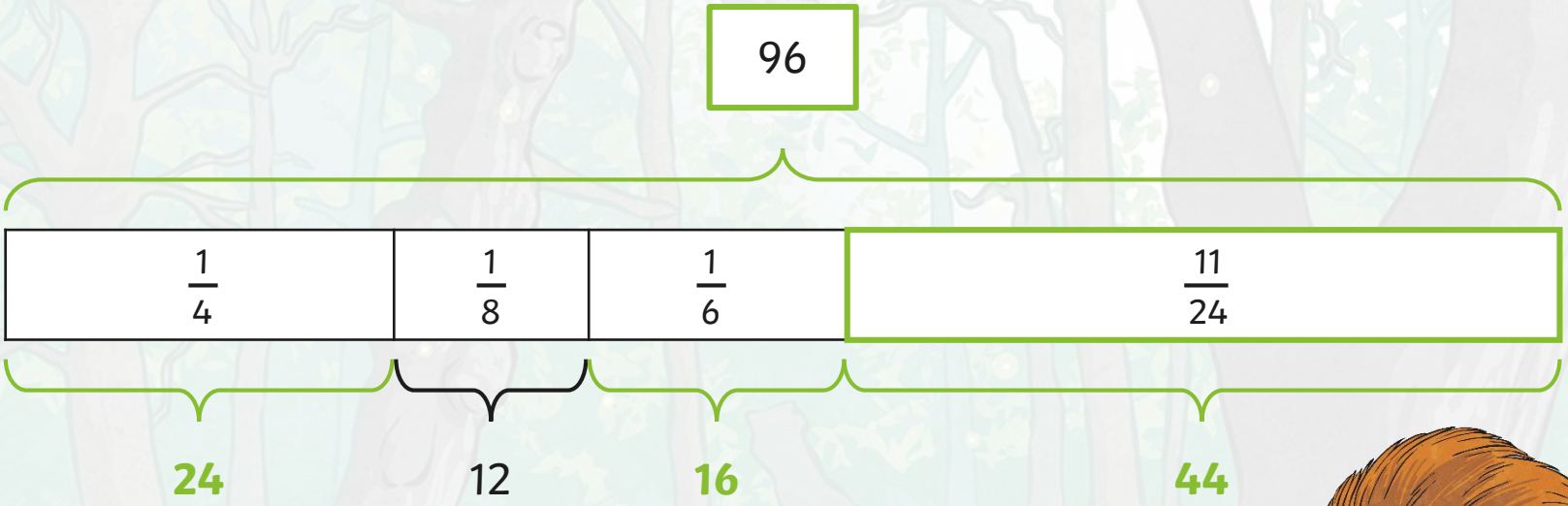
Fraction of an Amount – Find the Whole

Deepest

If $\frac{1}{8}$ of this bar model has a value of 12, what are the other missing values?



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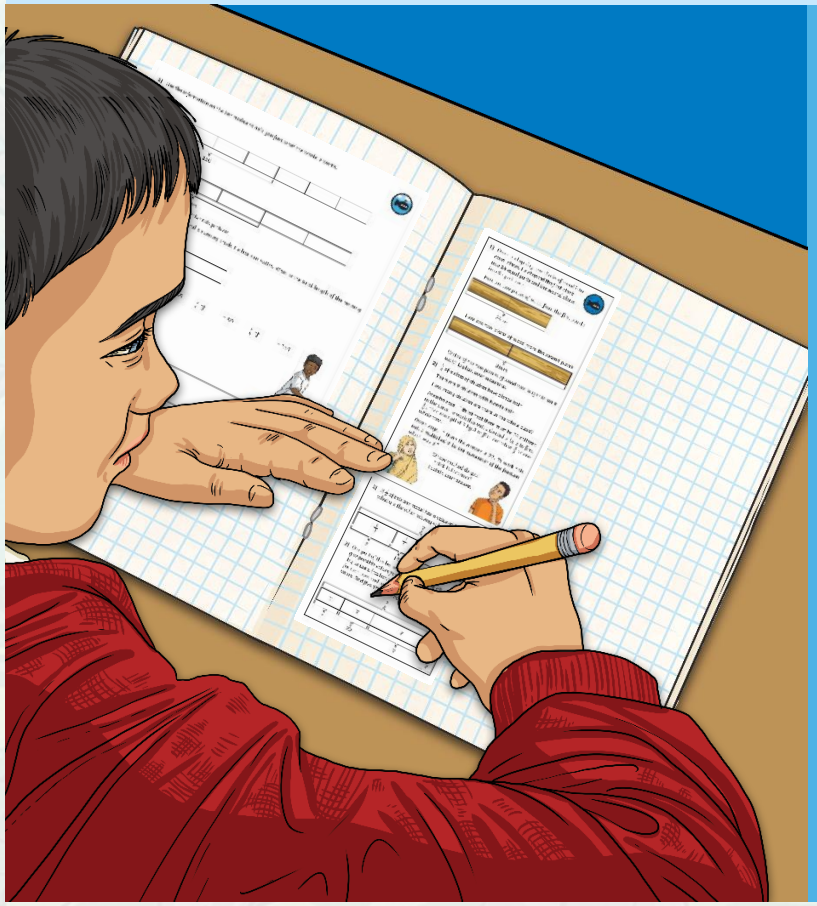
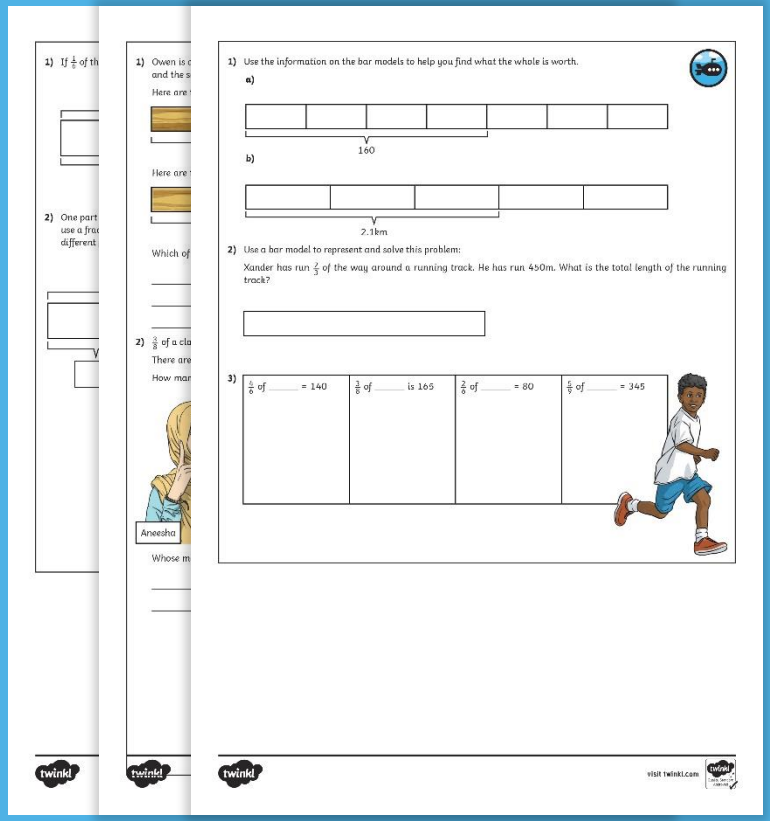
Fraction of an Amount – Find the Whole

Dive in by completing your own activity!





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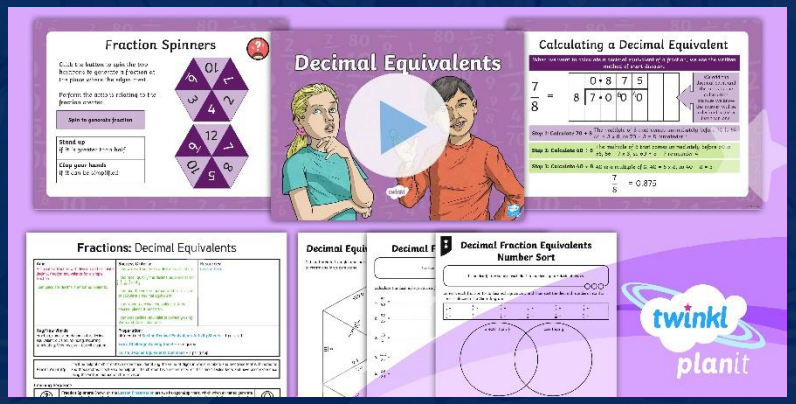
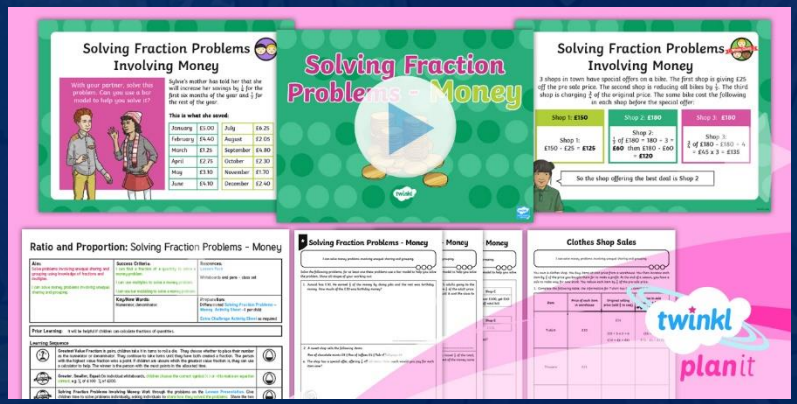
Need Planning to Complement this Resource?

National Curriculum Aims

- **Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.**
- **Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.**

For more planning resources to support this aim, [click here](#).





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