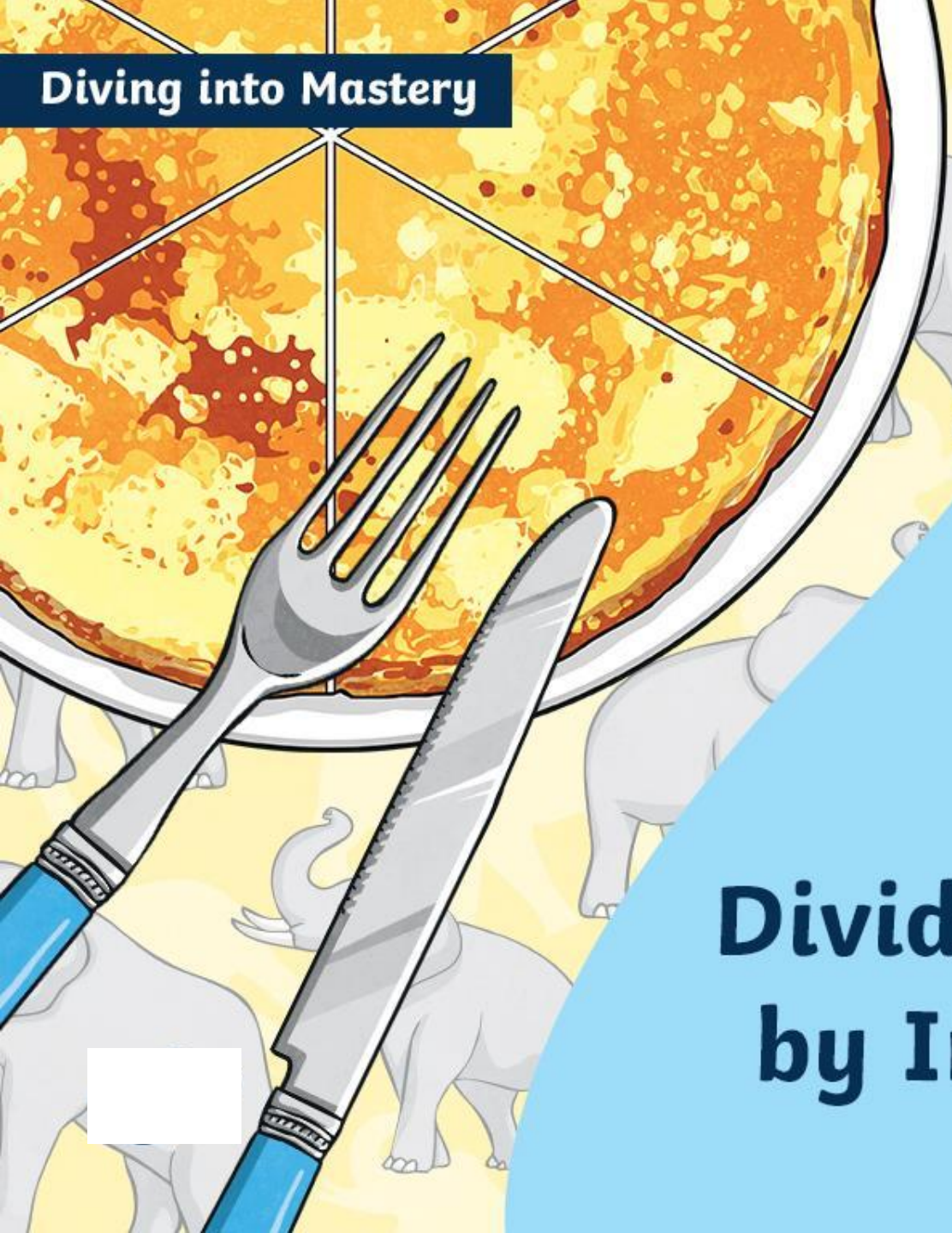
Diving into Mastery



Divide Fractions by Integers (1)

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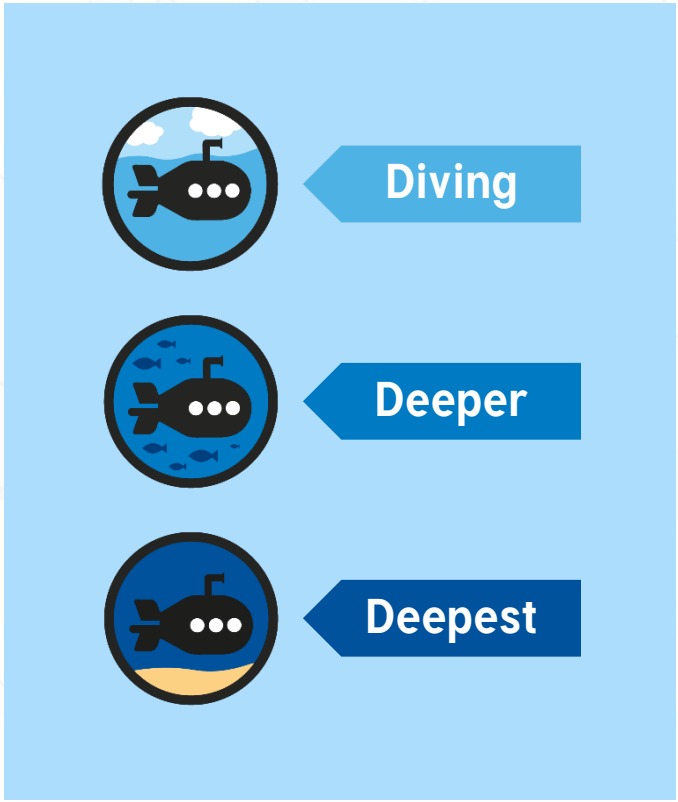
Diving into Mastery Guidance for Educators

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



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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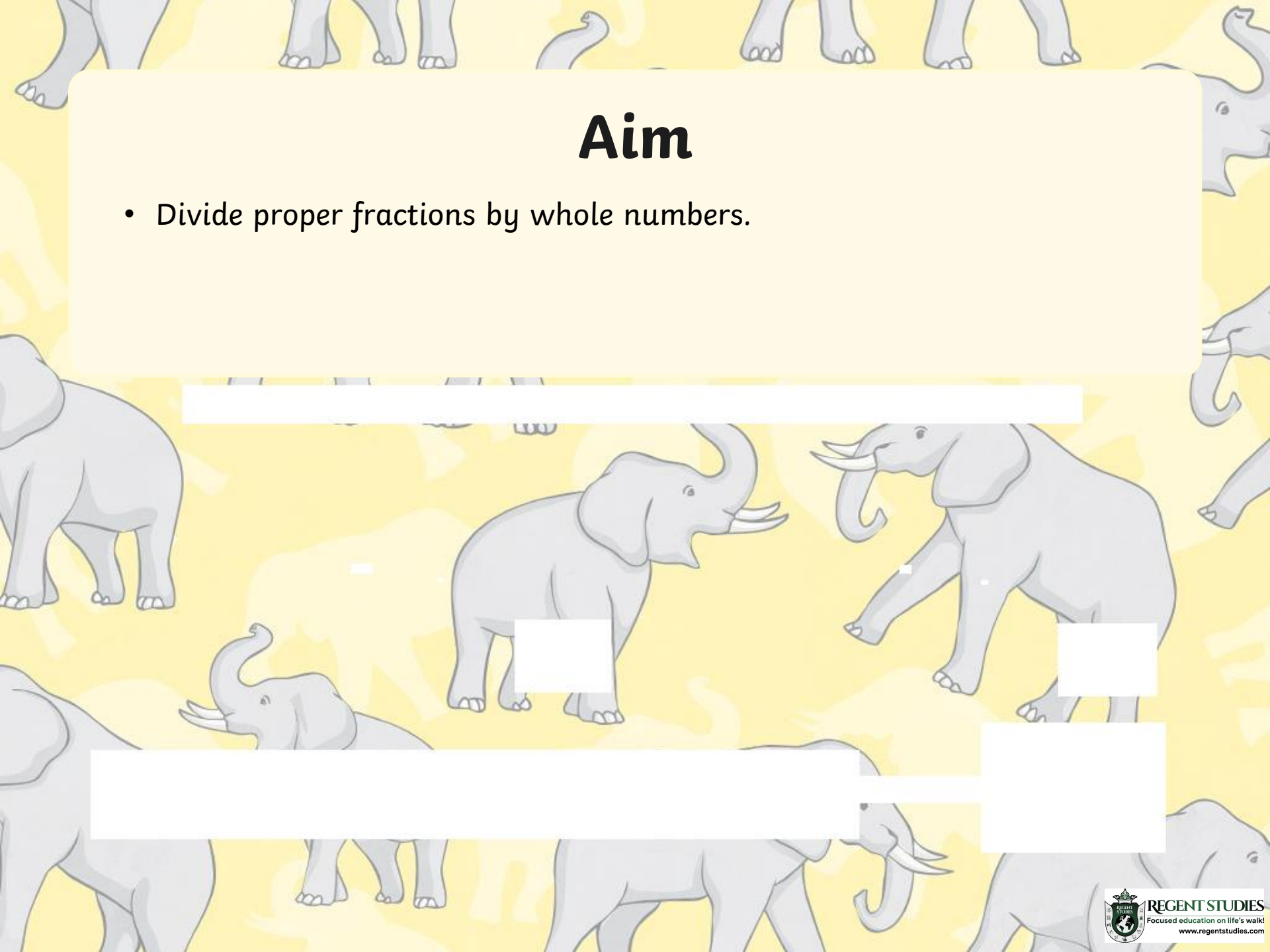
Aim

- Divide proper fractions by whole numbers.



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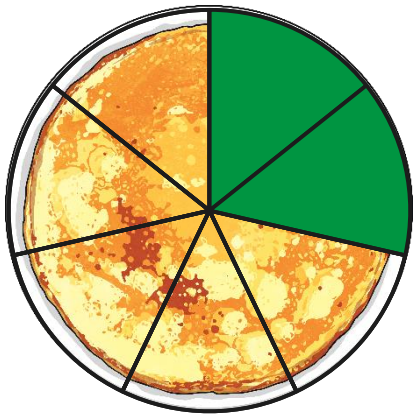
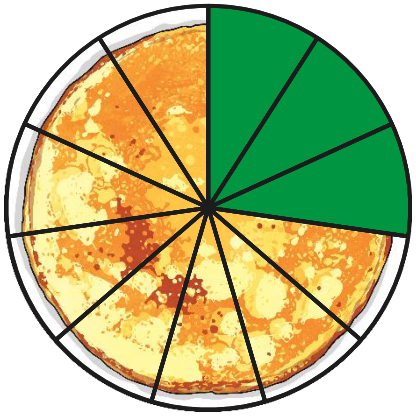
Divide Fractions by Integers (1) | Diving

Use the diagrams to help you answer these calculations.

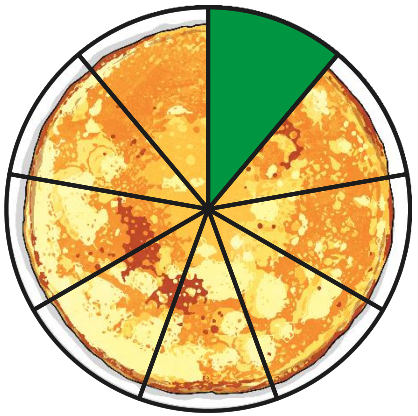
$\frac{4}{7} \div 2 = \frac{2}{7}$



$\frac{9}{11} \div 3 = \frac{3}{11}$



$\frac{6}{9} \div 6 = \frac{1}{9}$



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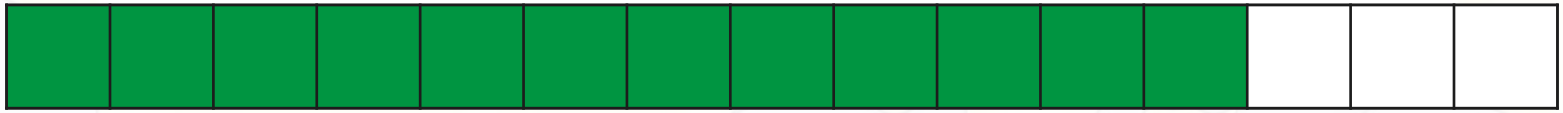
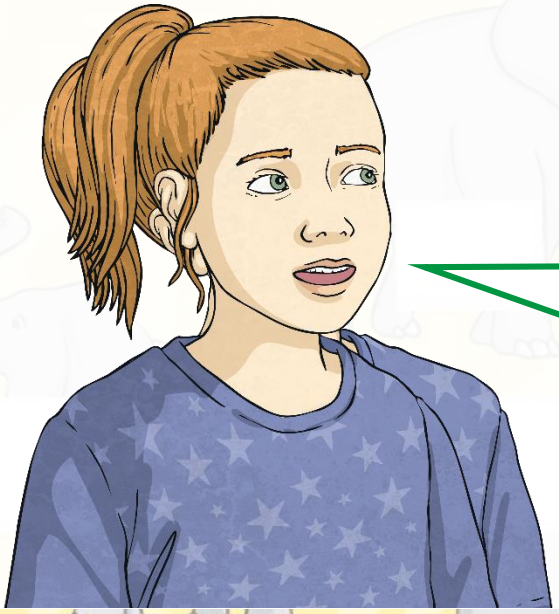
Divide Fractions by Integers (1)

Diving

Daniel uses $\frac{12}{15}$ of a roll of wrapping paper to wrap four equal sized presents.

What fraction of the roll of wrapping paper does each present use? Simplify the answer if possible.





$\frac{3}{15}$ or $\frac{1}{5}$

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Divide Fractions by Integers (1)

Deeper

Do you agree? Explain your method and reasoning.

$\frac{9}{\boxed{12}} \div 3 = \frac{3}{12}$	$\frac{36}{40} \div \boxed{12} = \frac{3}{40}$	$\frac{\boxed{12}}{17} \div 4 = \frac{3}{17}$

The missing number in all these calculations is 12.

He is correct.

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Divide Fractions by Integers (1)

Deeper

Prove if Hassan has completed his calculation correctly. Show your reasoning.

$$\frac{55}{90} \div 11 = \frac{1}{18}$$

Correct as $\frac{5}{90} = \frac{1}{18}$

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Divide Fractions by Integers (1)

Deepest

Work out the values of the symbols.

10	16	40

$$\frac{\text{⚡}}{30} \div 8 = \frac{1}{15}$$

$$\frac{\text{⚡}}{\text{🙂}} \div 2 = \frac{1}{5}$$

$$\frac{\text{🙂}}{71} \div \text{❤} = \frac{4}{71}$$

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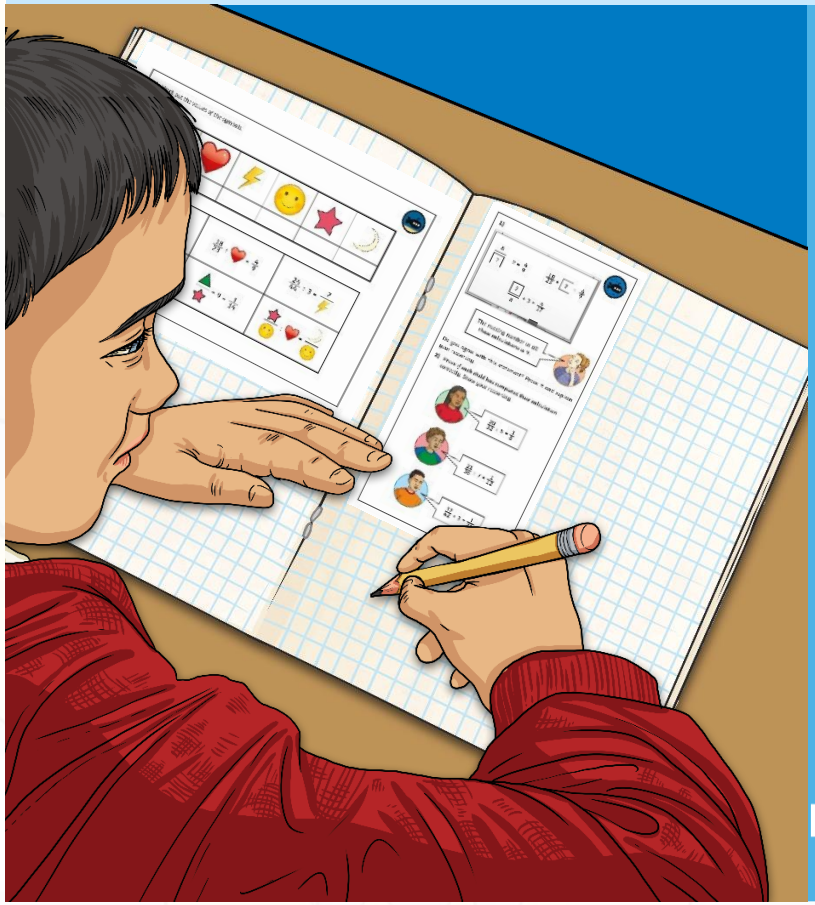
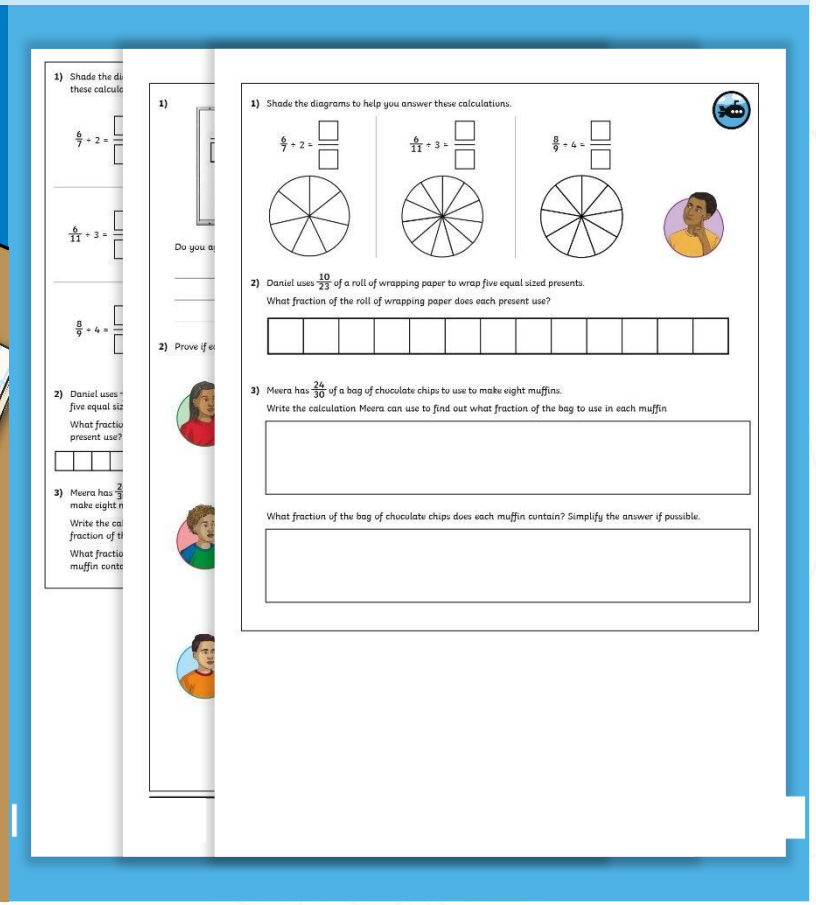
Divide Fractions by Integers (1)

Dive in by completing your own activity!





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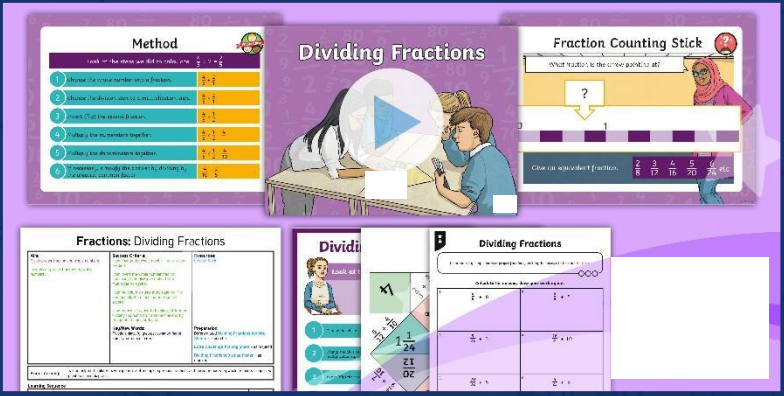
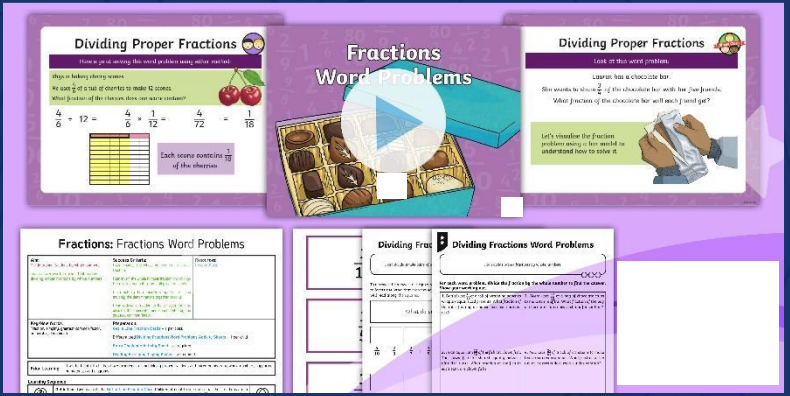
Need Planning to Complement this Resource?

National Curriculum Aim

Divide proper fractions by whole numbers.





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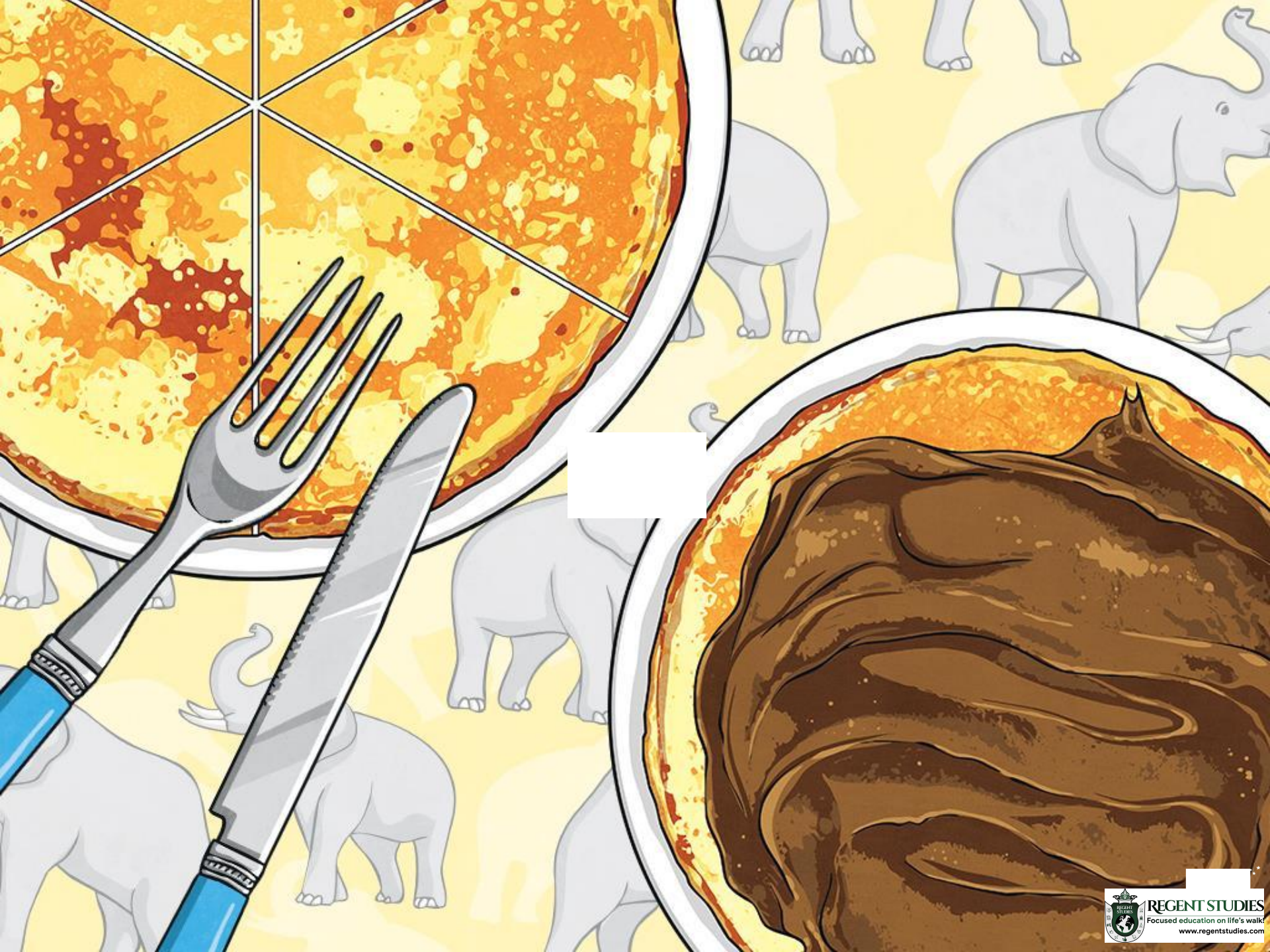

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