

Diving into Mastery



Fractions on a Number Line

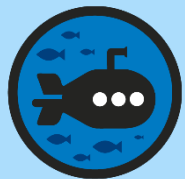
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Diving into Mastery Guidance for Educators

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



Diving



Deeper



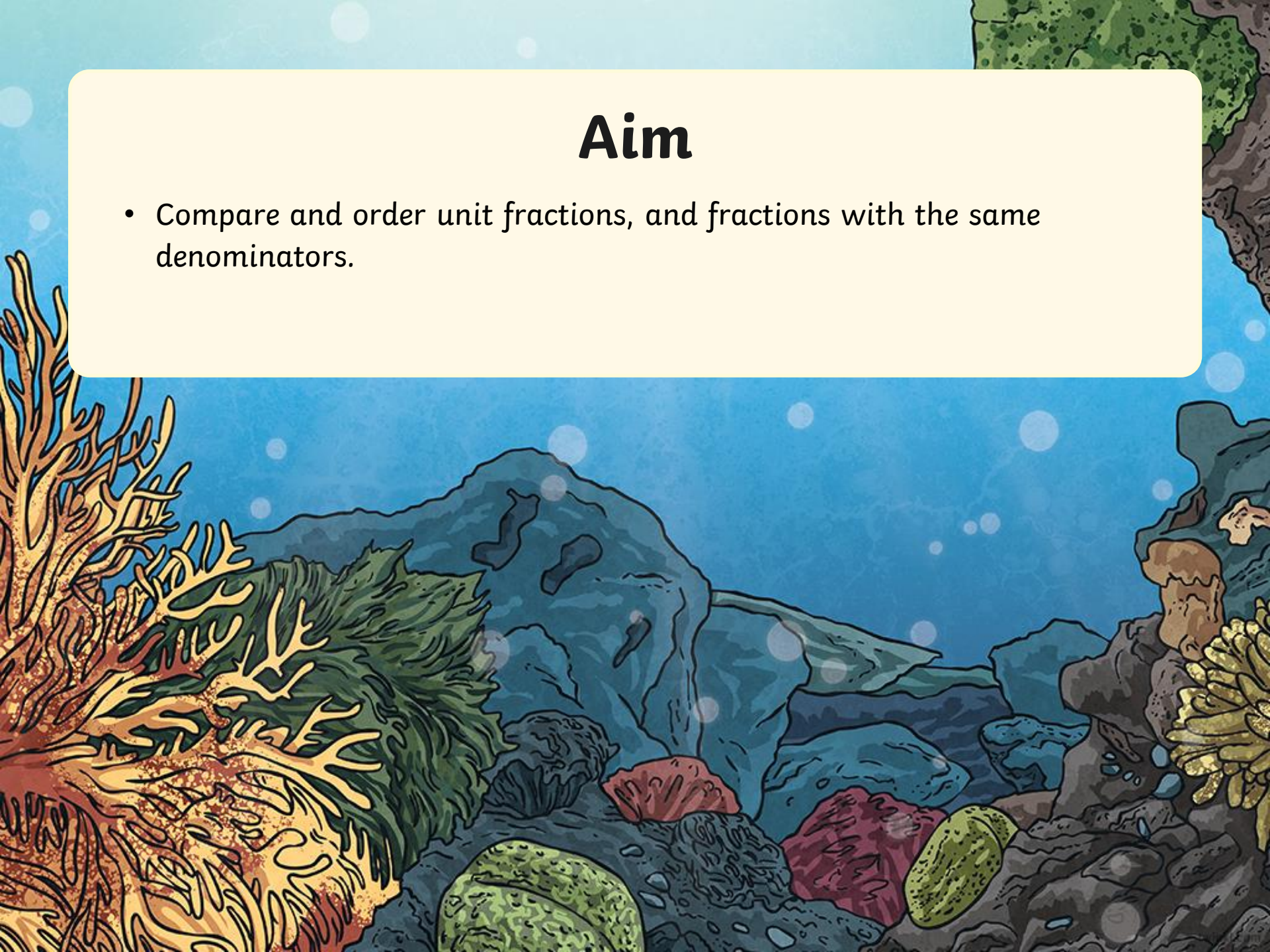
Deepest

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.

Aim

- Compare and order unit fractions, and fractions with the same denominators.



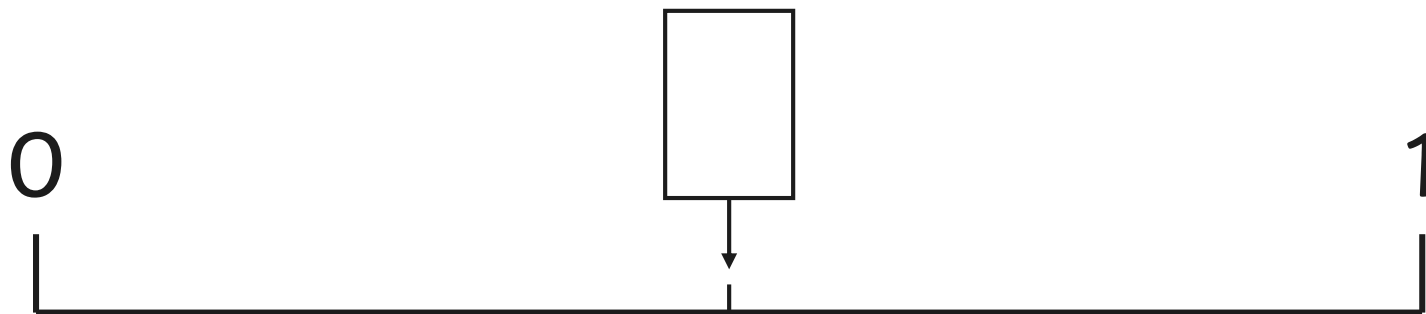
Fractions on a Number Line

Diving



The number line is divided into equal parts.

What fraction belongs in the middle of the number line?

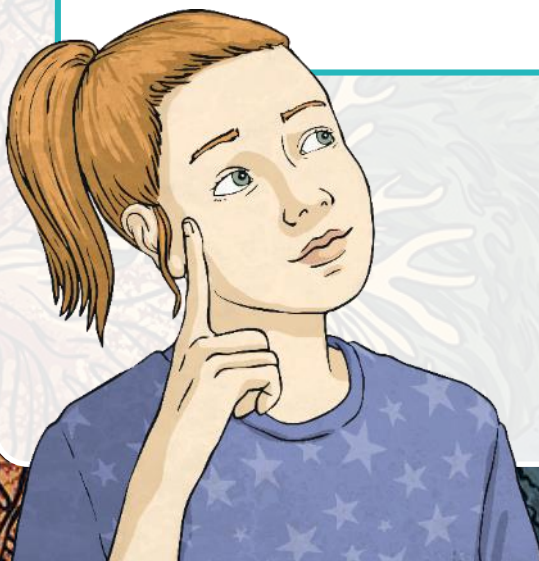


$$\frac{1}{4}$$

$$\frac{1}{5}$$

$$\frac{1}{2}$$

$$\frac{1}{1}$$



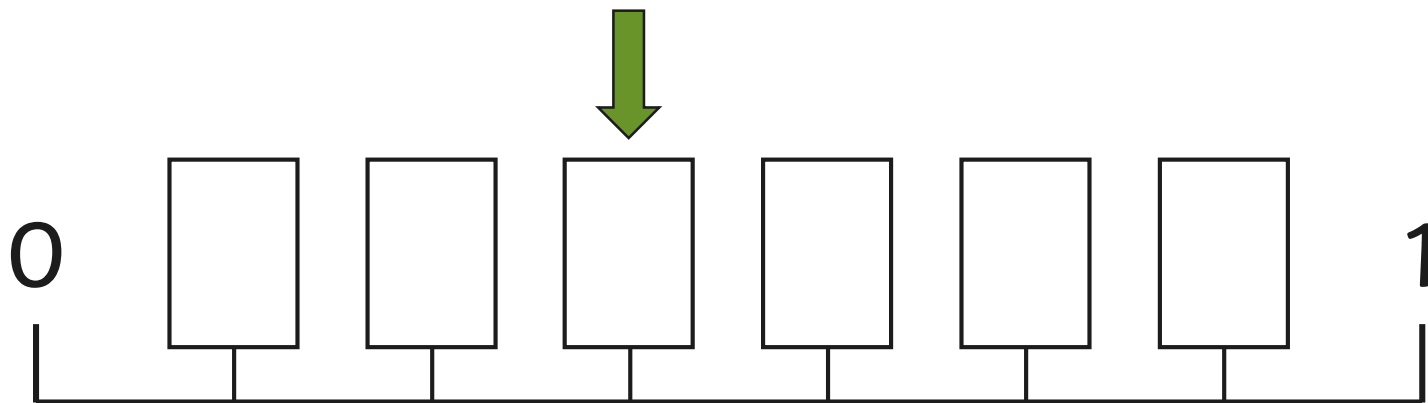
Fractions on a Number Line

Diving



The number line is divided into equal parts.

What fraction belongs here?



$$\frac{3}{7}$$

$$\frac{2}{7}$$

$$\frac{3}{6}$$

$$\frac{2}{6}$$

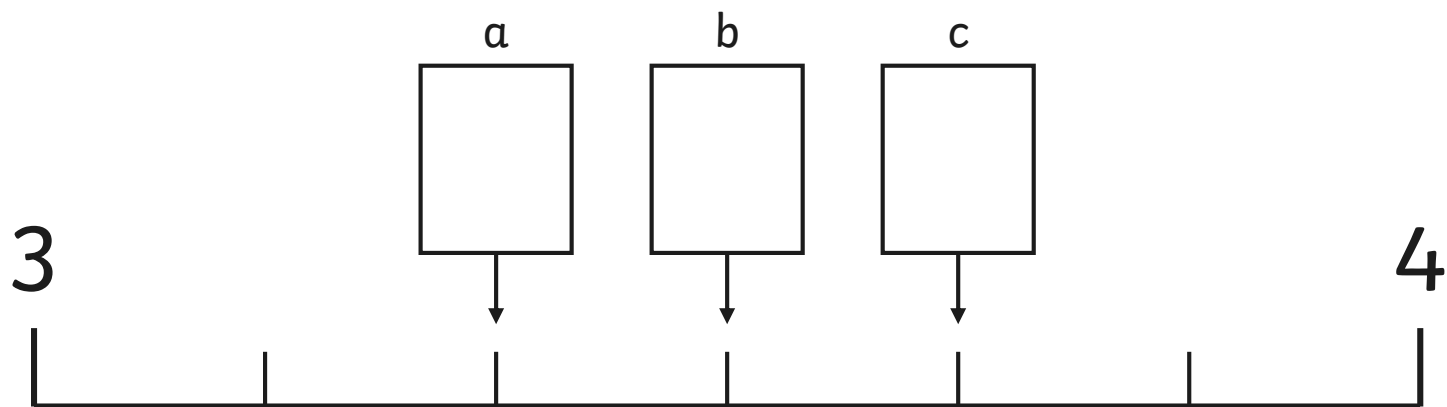
Fractions on a Number Line

Diving



The number line is divided into equal parts.

Where should $3\frac{3}{6}$ be placed?



$$3\frac{3}{6}$$



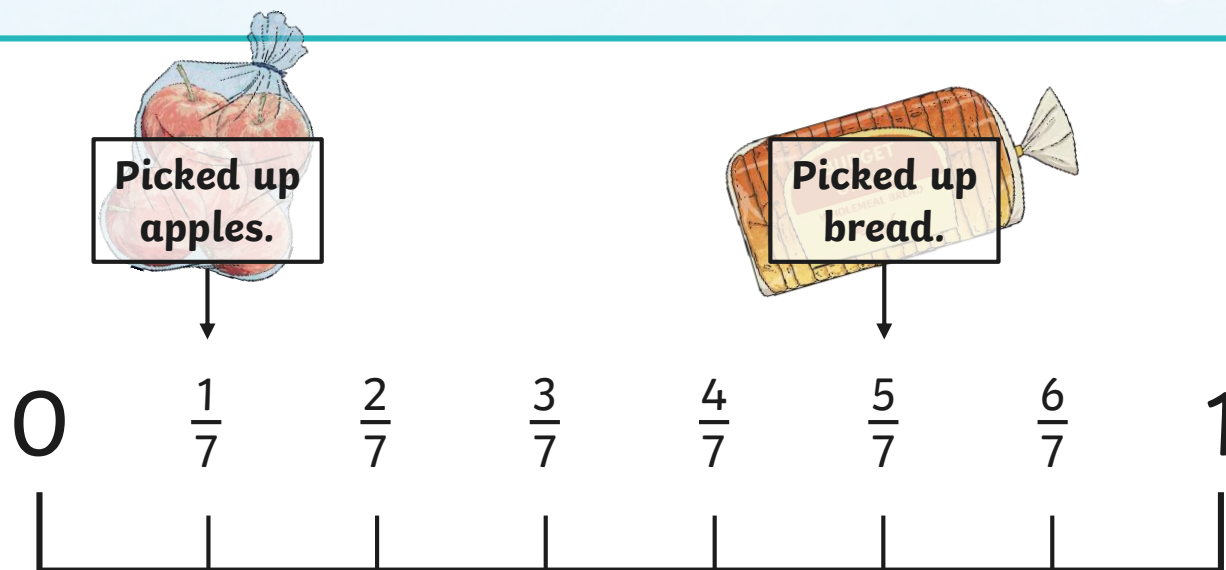
Fractions on a Number Line

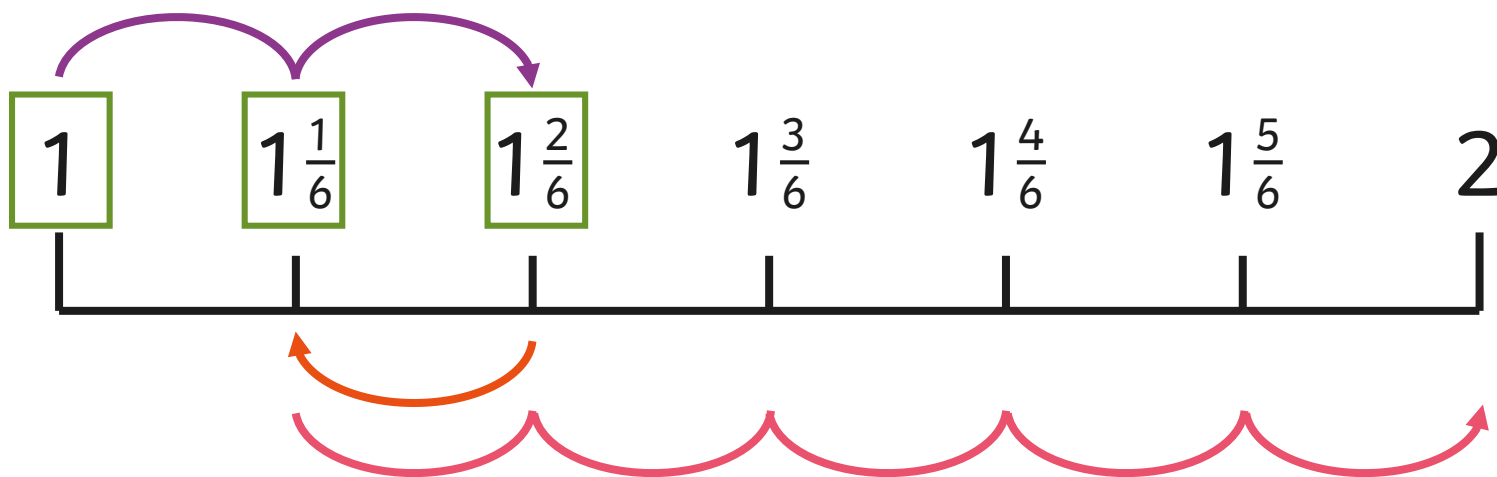
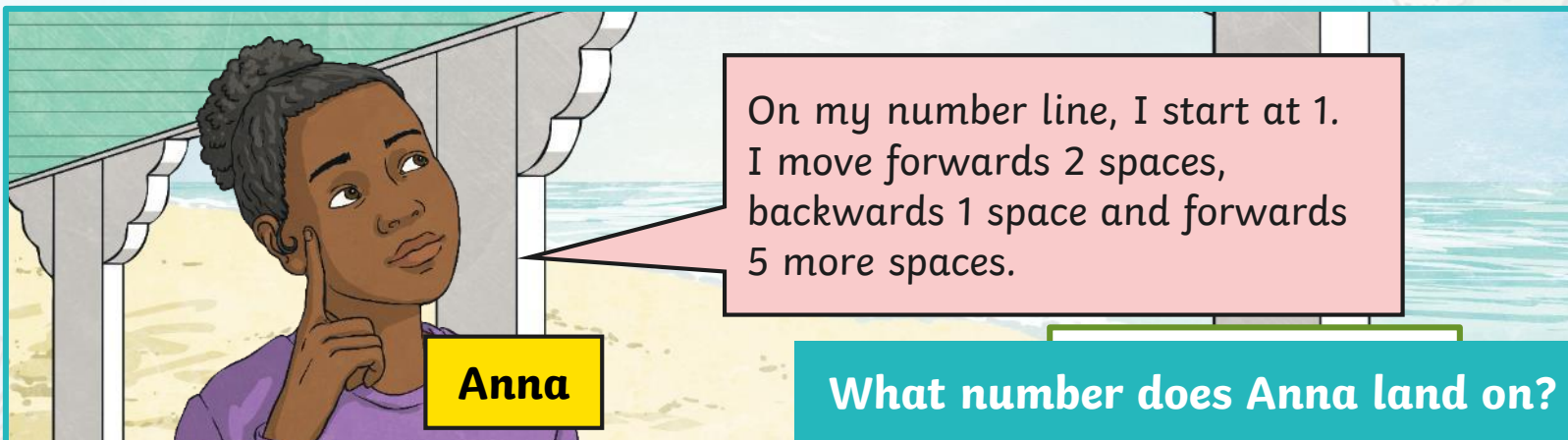
Diving

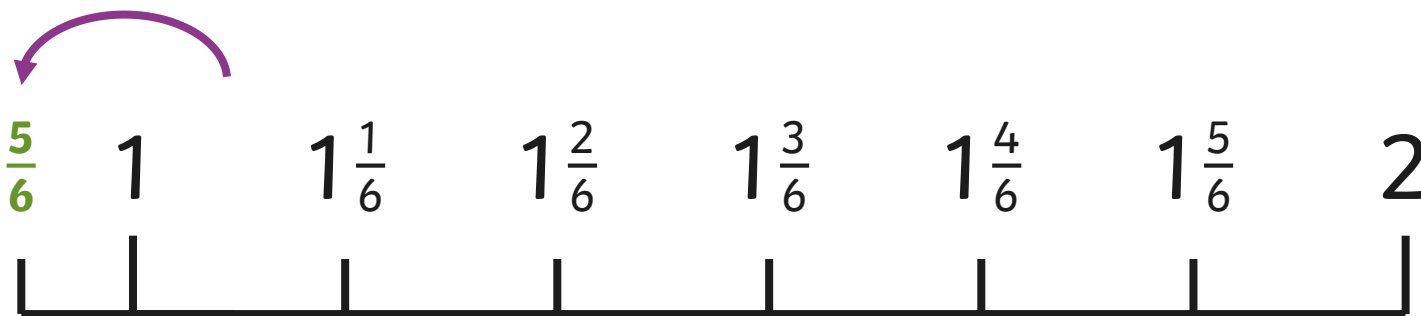
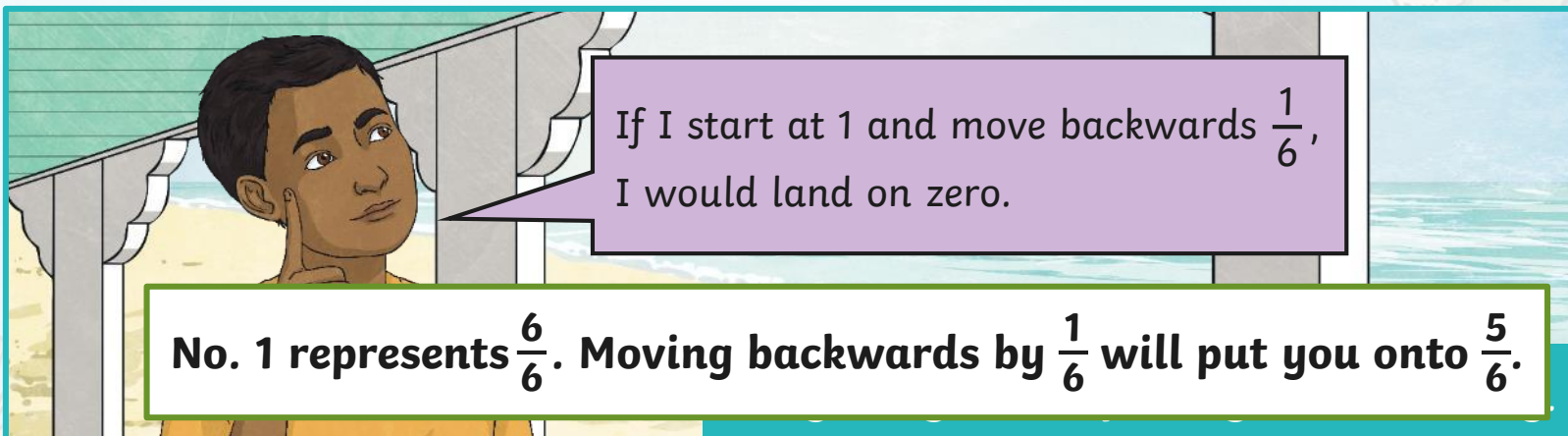


Anna walked around the supermarket. She picked up some apples $\frac{1}{7}$ of the way to the till. Then, she picked up some bread $\frac{5}{7}$ of the way to the till.

Show Anna's journey around the supermarket.





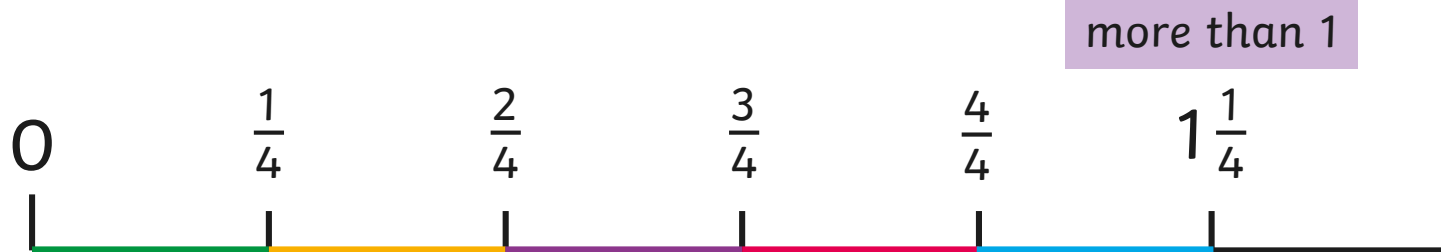




The number lines will cross over 1 at the same point.

No. As you can see by the length of the number line, it takes more jumps to reach $1\frac{1}{4}$ (more than $\frac{4}{4}$) than it does to reach $1\frac{1}{3}$ (more than $\frac{3}{3}$).

Do you agree? Explain your reasoning.



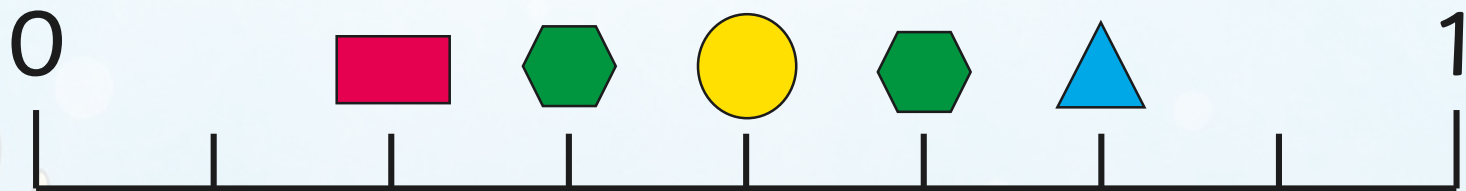
Fractions on a Number Line

Deepest



Some shapes have been removed from a number line.

Use the clues to work out where the shapes are placed on the number line.



I am 4 away from triangle.



I am at the half way point.



I am between two shapes.



I am two away from 1.



Fractions on a Number Line

Deepest



Only a fraction of each line can be seen. The rest is hidden.
Each line stops at a whole. Which whole line is longer?

Explain your reasoning.



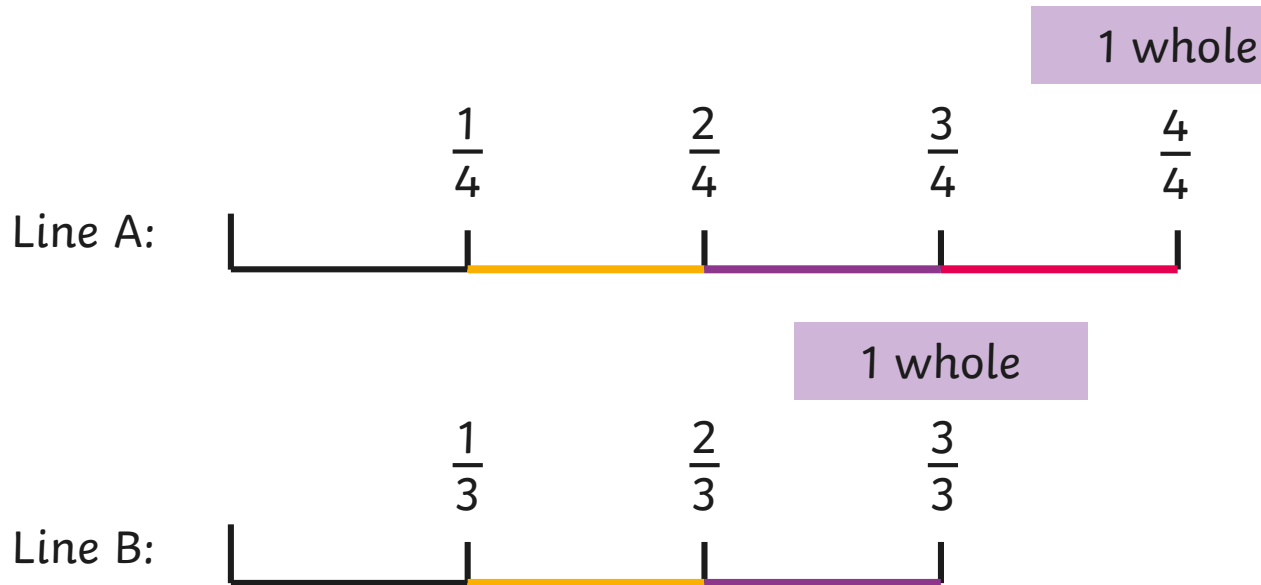
Fractions on a Number Line

Deepest



Only a fraction of each line is seen. The rest is hidden.
Each line stops at a whole. Which whole line is longer?

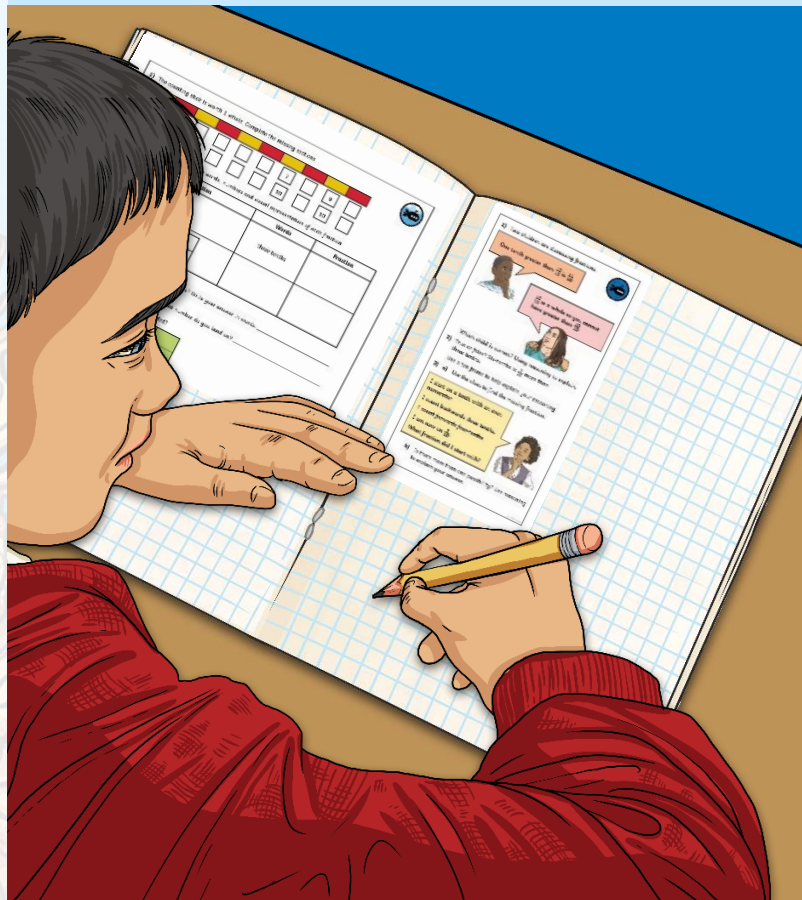
Explain your reasoning.



**Line A needs 3 more parts to make a whole. Line B needs an extra 2.
Therefore, Line A is longer than Line B.**

Fractions on a Number Line

Dive in by completing your own activity!



1) The counting stick is worth 1 whole. Complete the missing sections.

2) a) Fill in the table to show the words, numbers and visual representation of each fraction.

Representation	Words	Fraction
	three-tenths	

b) What fraction would come next in the table? Write your answer in words.

3) Start at $\frac{7}{10}$ and count back four-tenths. What number do you land on?

4) a) What fraction of the ten frame is shaded?

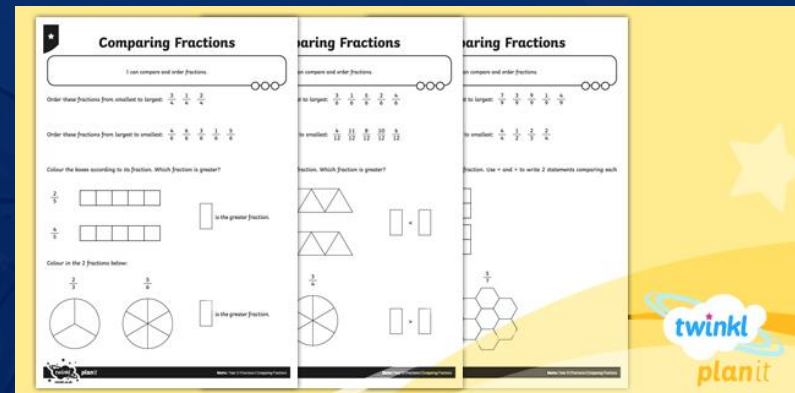
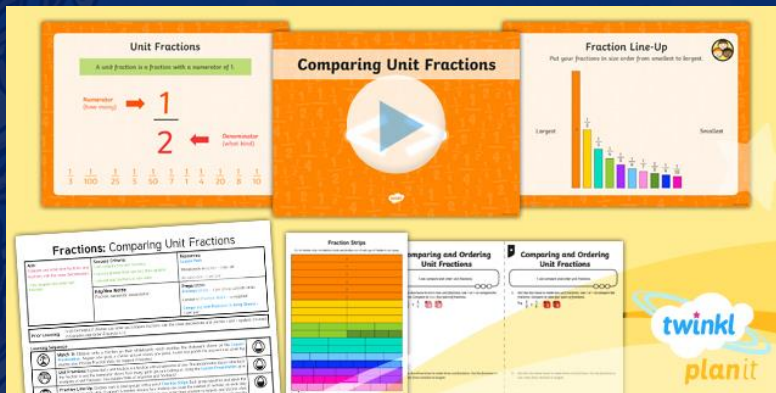
b) If another section is shaded, what would the next tenth be?

Need Planning to Complement this Resource?

National Curriculum Aim

Compare and order unit fractions and fractions with the same denominators.

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



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