What is a Fraction?

2 minute challenge How many mathematical words can you think of in 2 minutes?



Fractions

Number & Operations - Fractions Vocabulary

denominator - the part a fraction that is written below (or to the right) of the line and stands for the total number of parts in the whole

equal parts - parts that have the same portion, piece or segment of a whole

equivalent - things having the same value

equivalent fractions - fractions that have the same value even though they make look different (Ex: 1/3 = 3/9)

fraction - part of a whole

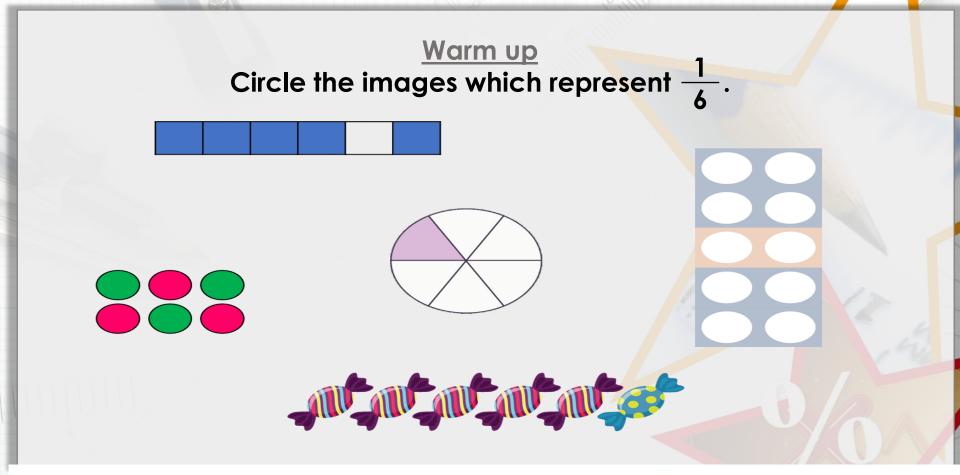
numerator - the part of a fraction that is written above (or to the left) of the line and stands for a part of the whole

part - a piece or only some of something

quantity - the amount or number of something

whole - all of something; complete



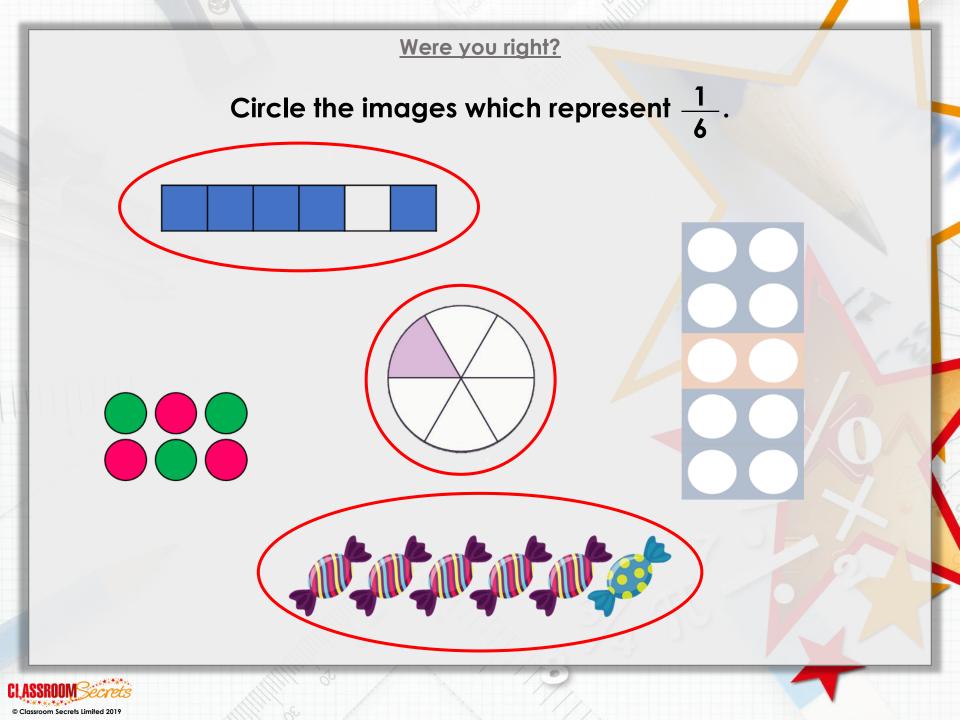


The top number in a fraction.

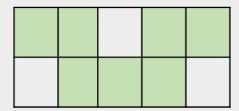
Shows how many parts we have.

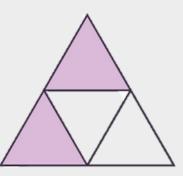
(The bottom number is the Denominator and shows how many equal parts the item is divided into.)





Circle the unit fractions.





Unit fraction: A **unit fraction** is a **fraction** where the numerator (top number) is 1 and the denominator (bottom number) is a whole number.

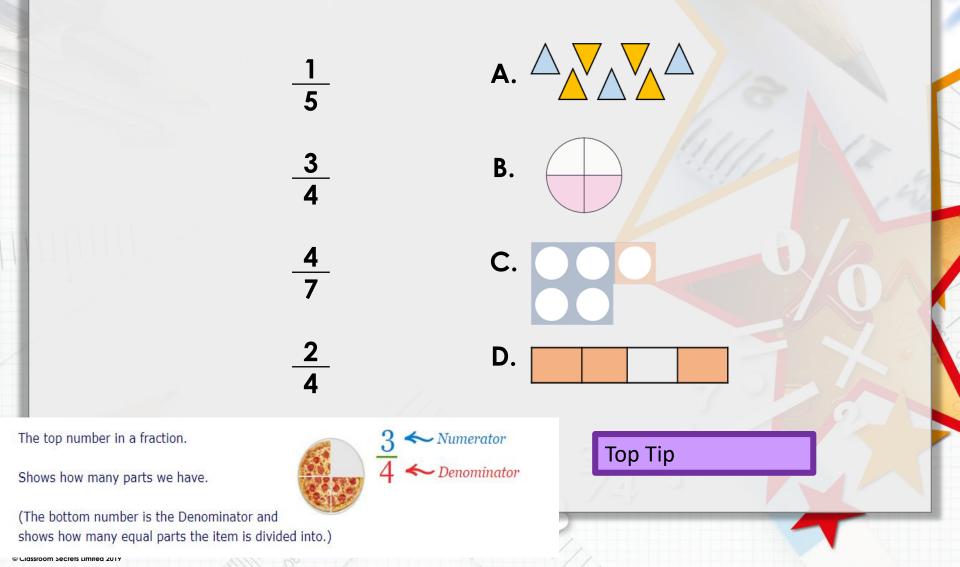


Circle the unit fractions.

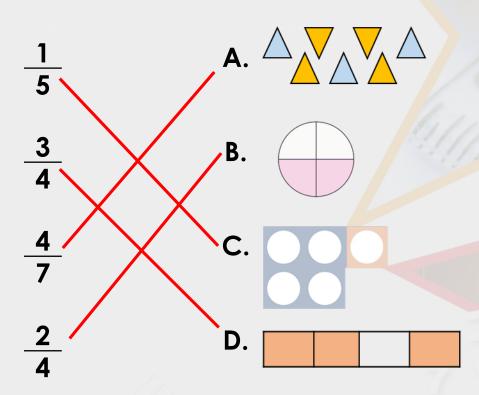
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Match the fraction to the correct representation.



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> <u>6</u> 12

 $\frac{4}{12}$ $\frac{11}{12}$ $\frac{2}{12}$

Step 1: Count how many sections the line has been broken into.



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<u>4</u> 12

Step 1: Count how many sections the line has been broken into. Step 2: It's 6 how can we use this to make 12 sections like the denominator?



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Step 2: It's 6 how can we use this to make 12 sections like the denominator?
Step 3: Using our knowledge of times tables we know 6 x 2 = 12. So we can add lines.

 $\frac{4}{12}$ $\frac{11}{12}$ $\frac{2}{12}$



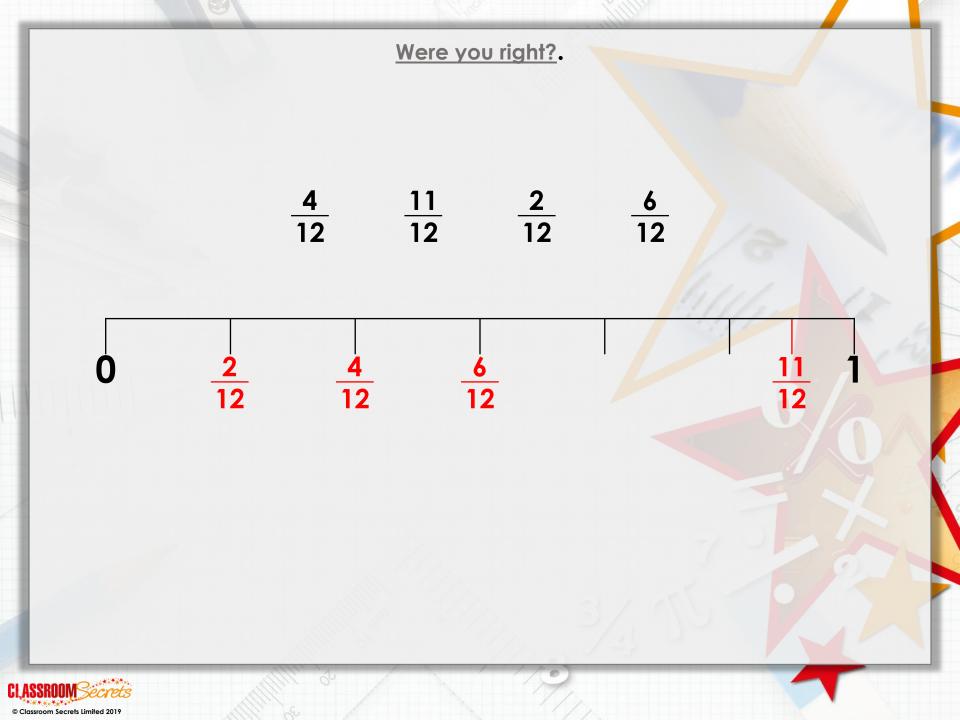
Step 1: Count how many sections the line has been broken into.

Step 2: It's 6 how can we use this to make 12 sections like the denominator? Step 3: Using our knowledge of times tables we know $6 \ge 2 = 12$. So we can add lines.

 $\frac{4}{12}$ $\frac{11}{12}$ $\frac{2}{12}$

Step 4: As the denominators are all the same we can use the numerator to tell us where to place the fraction. You try it on a piece of paper





True or false? Three eighths is show below. 2 minute challenge: Can you write the 3 steps before 1 minutes is up?



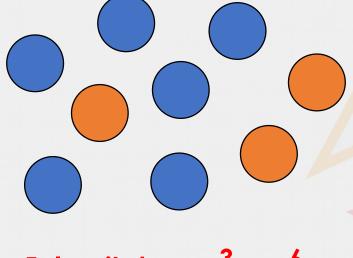
True or false? Three eighths is show below. 2 minute challenge: Can you write the 4 steps before 1 minutes is up?

Step 1: Count how many dots there are. This will give us the denominator.
Step 2: Count how are blue? This will give the numerator for 1 fraction.
Step 3: Count how are orange? This will give the numerator for another fraction.
Step 4: Answer the question.



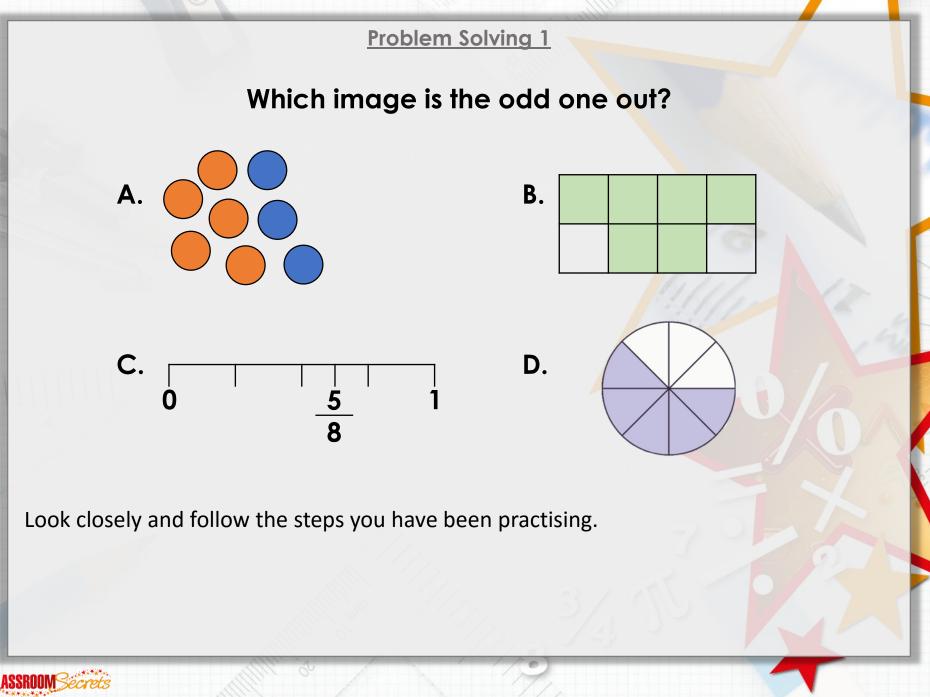
Were you correct?

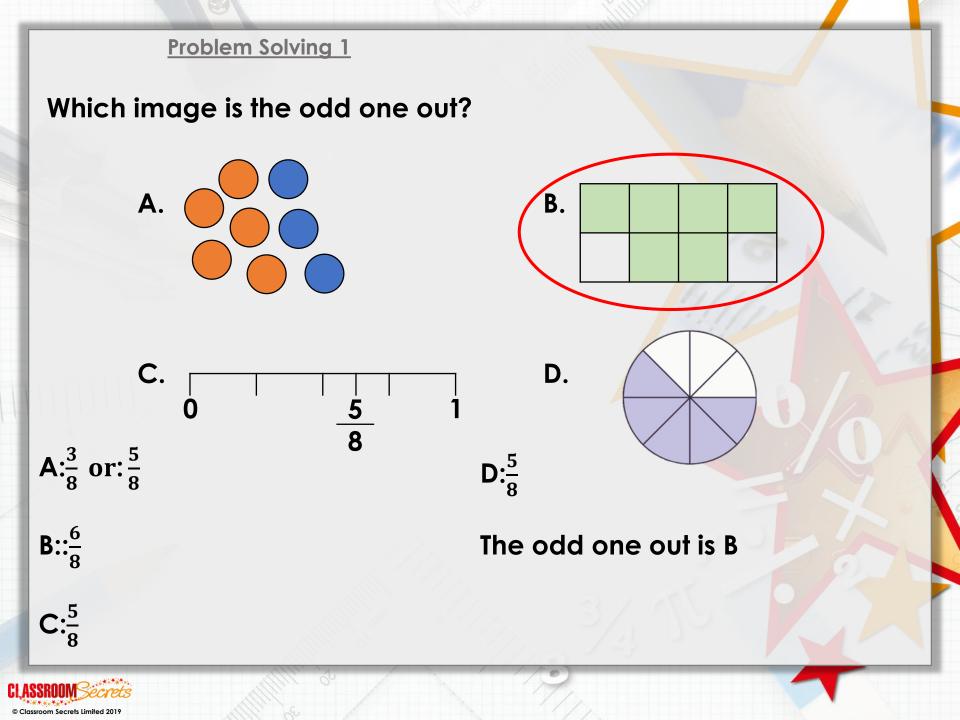
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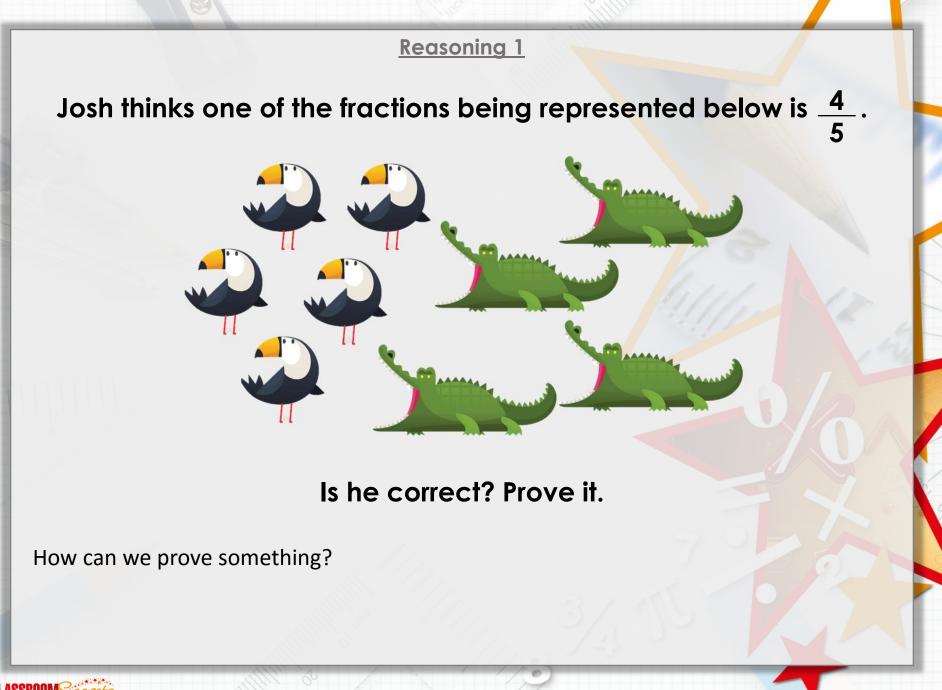


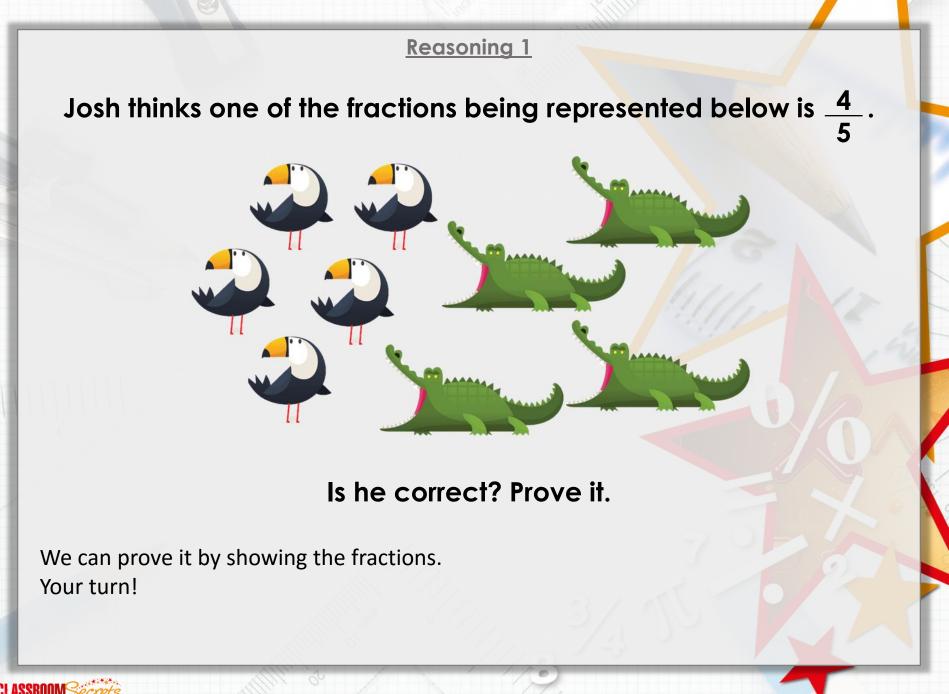
False; it shows $\frac{3}{9}$ or $\frac{6}{9}$.

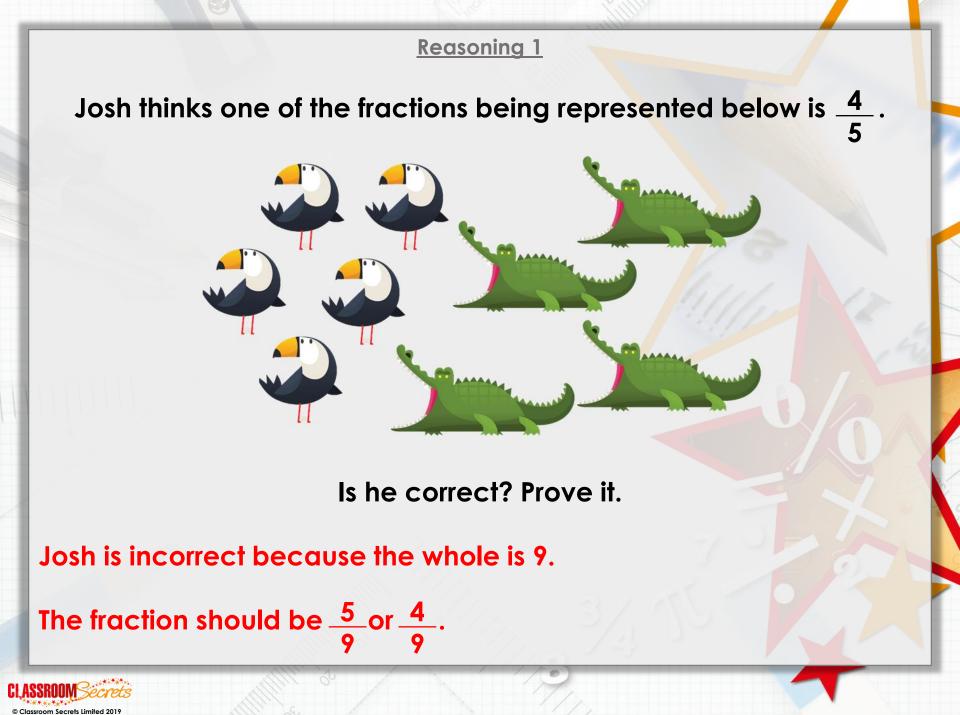












Reasoning 2

Tara has placed a fraction on the number line.

<u>3</u> 12



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Maths Vocabulary

correct incorrect I know this because..... fraction denominator numerator



Reasoning 2

Tara has placed a fraction on the number line.



Is she correct? Explain how you know.

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Tara is incorrect because the <u>denominator</u> is 12 and the line is split into 6 sections. She placed the fraction in the middle of the number line which would be $\frac{6}{12}$.

