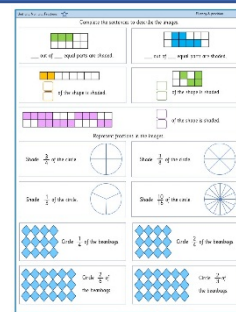


★ Unit and Non unit Fractions

Children recap their understanding of unit and non-unit fractions from Year 2. They explain the similarities and differences between unit and non-unit fractions. They are introduced to fractions with denominators other than 2, 3 and 4, which they used in Year 2. Ensure they understand what the numerator and denominator represent.

On this sheet, they will recognise unit and non-unit fractions with simple images.

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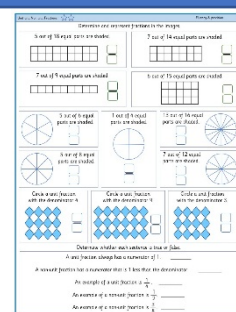


★★ Unit and Non unit Fractions

Children are introduced to fractions with denominators other than 2, 3 and 4, which they used in Year 2. Ensure they understand what the numerator and denominator represent.

On this sheet, they will build their own models to represent unit and non-unit fractions and answer trickier questions to find unit and non-unit fractions.

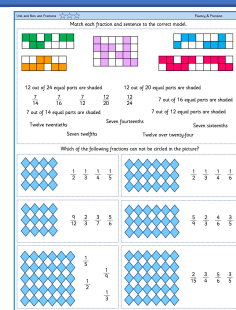
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★★★ Unit and Non unit Fractions

On this sheet, children will solve multi-step questions with unit and non-unit fractions.

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Reasoning & Problem Solving

Unit and Non unit Fractions

Children continue working on their understanding of unit and non-unit fractions.

They will solve geometrical questions involving unit fractions.

TRUE or FALSE?

One third of the shape is shaded.

One fifth of the shape is shaded.

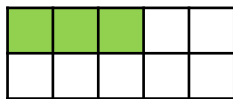
Sort the fractions into the table.

	Fractions equal to one whole	Fractions less than one whole
Unit fractions		
Non-unit fractions		

Are there any boxes in the table empty? Why?



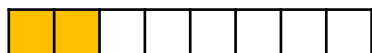
Complete the sentences to describe the images.



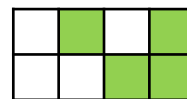
___ out of ___ equal parts are shaded.



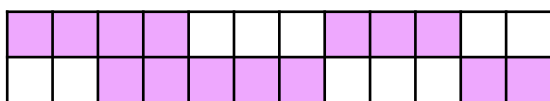
___ out of ___ equal parts are shaded.



of the shape is shaded.



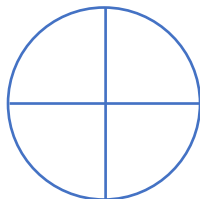
of the shape is shaded.



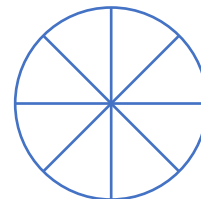
of the shape is shaded.

Represent fractions in the images.

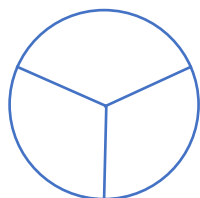
Shade $\frac{3}{4}$ of the circle.



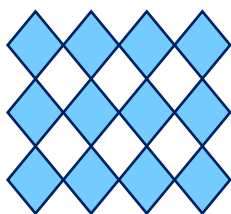
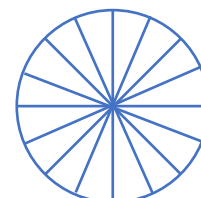
Shade $\frac{3}{8}$ of the circle.



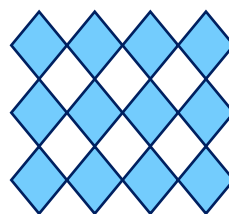
Shade $\frac{1}{3}$ of the circle.



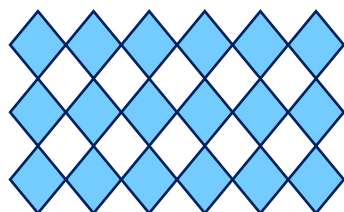
Shade $\frac{10}{16}$ of the circle.



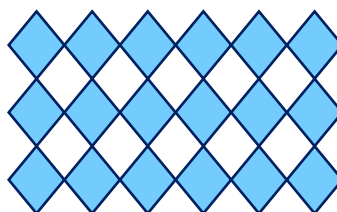
Circle $\frac{1}{4}$ of the beanbags.



Circle $\frac{2}{4}$ of the beanbags.



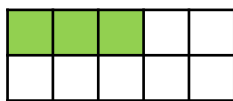
Circle $\frac{2}{6}$ of
the beanbags.



Circle $\frac{2}{3}$ of
the beanbags.



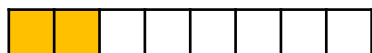
Complete the sentences to describe the images.



3 out of 10 equal parts are shaded.

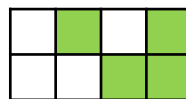


6 out of 12 equal parts are shaded.



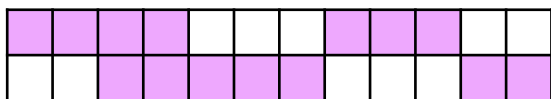
2
8

of the shape is shaded.



4
8

of the shape is shaded.

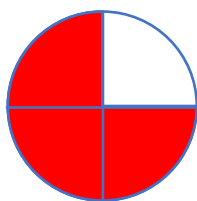


14
24

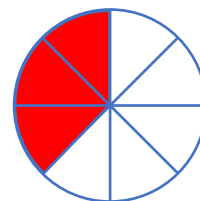
of the shape is shaded.

Represent fractions in the images.

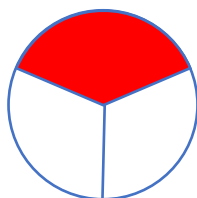
Shade $\frac{3}{4}$ of the circle.



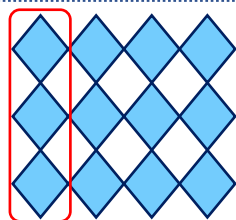
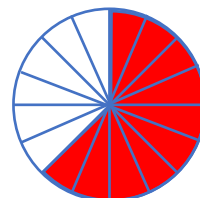
Shade $\frac{3}{8}$ of the circle.



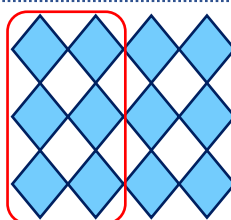
Shade $\frac{1}{3}$ of the circle.



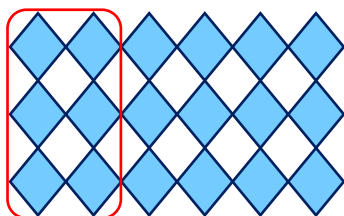
Shade $\frac{10}{16}$ of the circle.



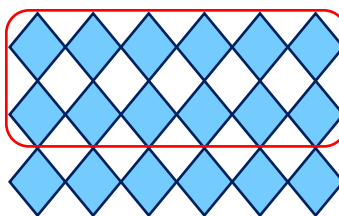
Circle $\frac{1}{4}$ of the beanbags.



Circle $\frac{2}{4}$ of the beanbags.



Circle $\frac{2}{6}$ of
the beanbags.

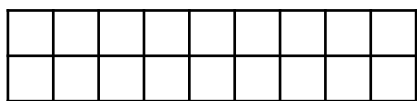


Circle $\frac{2}{3}$ of
the beanbags.

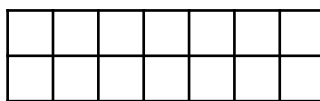


Determine and represent the given fractions.

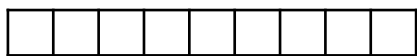
5 out of 18 equal parts are shaded.



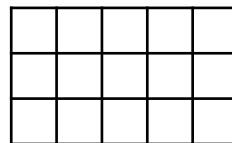
7 out of 14 equal parts are shaded.



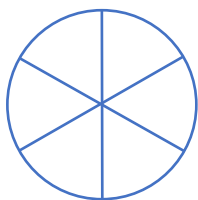
7 out of 9 equal parts are shaded.



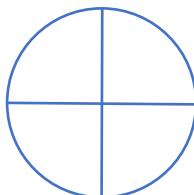
6 out of 15 equal parts are shaded.



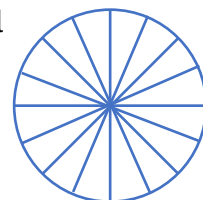
5 out of 6 equal parts are shaded.



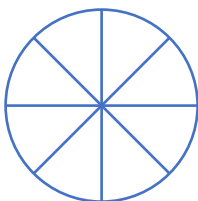
1 out of 4 equal parts are shaded.



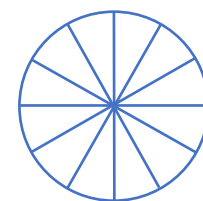
13 out of 16 equal parts are shaded.



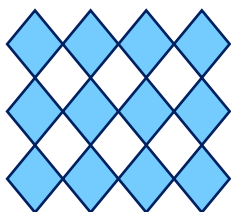
5 out of 8 equal parts are shaded.



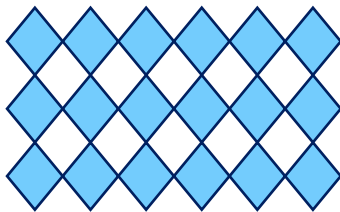
7 out of 12 equal parts are shaded.



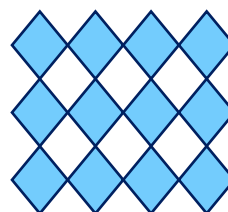
Circle a unit fraction with the denominator 4.



Circle a unit fraction with the denominator 9.



Circle a unit fraction with the denominator 3.



Determine whether each sentence is true or false.

A unit fraction always has a numerator of 1. _____

A non-unit fraction has a numerator that is 1 less than the denominator. _____

An example of a unit fraction is $\frac{1}{4}$. _____

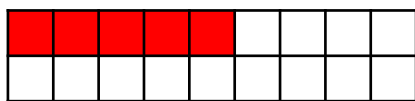
An example of a non-unit fraction is $\frac{1}{2}$. _____

An example of a non-unit fraction is $\frac{3}{8}$. _____



Determine and represent the given fractions.

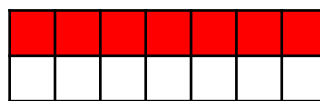
5 out of 18 equal parts are shaded.



5

18

7 out of 14 equal parts are shaded.



7

14

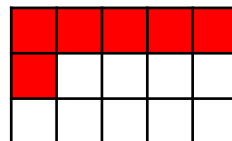
7 out of 9 equal parts are shaded.



7

9

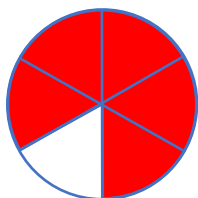
6 out of 15 equal parts are shaded.



6

15

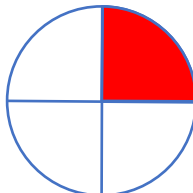
5 out of 6 equal parts are shaded.



5

6

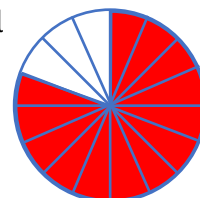
1 out of 4 equal parts are shaded.



1

4

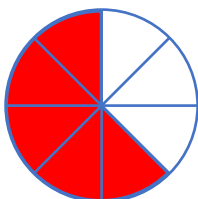
13 out of 16 equal parts are shaded.



13

16

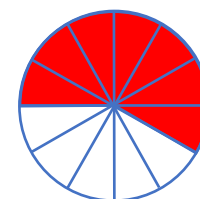
5 out of 8 equal parts are shaded.



5

8

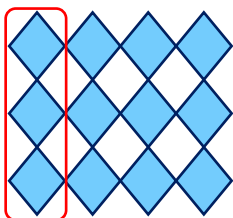
7 out of 12 equal parts are shaded.



7

12

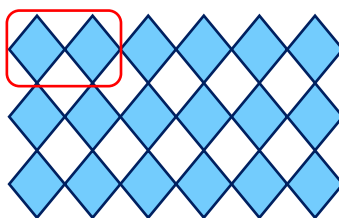
Circle a unit fraction with the denominator 4.



1

4

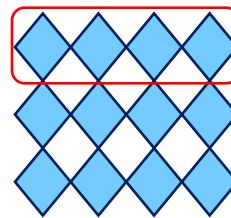
Circle a unit fraction with the denominator 9.



1

9

Circle a unit fraction with the denominator 3.



1

3

Determine whether each sentence is true or false.

A unit fraction always has a numerator of 1. true

A non-unit fraction has a numerator that is 1 less than the denominator. false

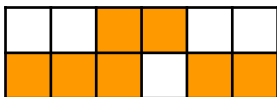
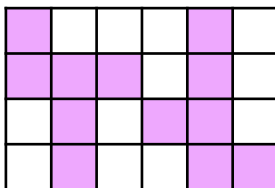
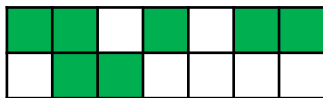
An example of a unit fraction is $\frac{1}{4}$. true

An example of a non-unit fraction is $\frac{1}{2}$. false

An example of a non-unit fraction is $\frac{3}{8}$. true



Match each fraction and sentence to the correct model.



12 out of 24 equal parts are shaded

12 out of 20 equal parts are shaded

$$\frac{7}{14}$$

$$\frac{7}{16}$$

$$\frac{7}{12}$$

$$\frac{12}{20}$$

$$\frac{12}{24}$$

7 out of 16 equal parts are shaded

7 out of 14 equal parts are shaded

7 out of 12 equal parts are shaded

Twelve twentieths

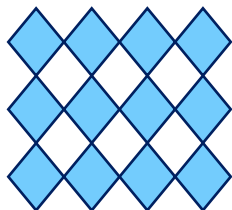
Seven fourteenths

Seven sixteenths

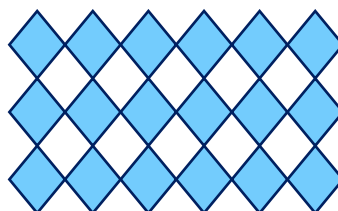
Seven twelfths

Twelve over twenty-four

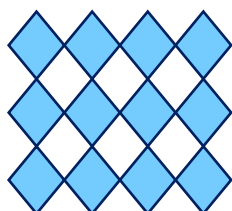
Which of the following fractions can not be circled in the picture?



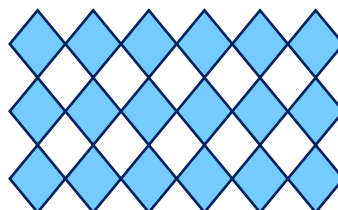
$$\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{5}$$



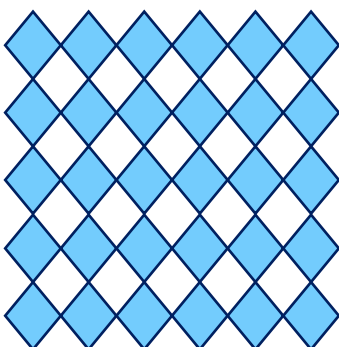
$$\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{6}$$



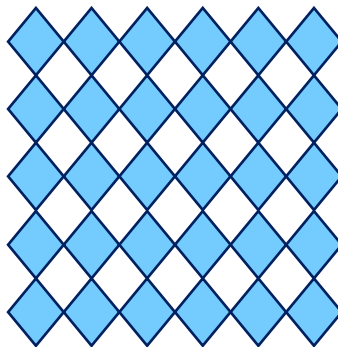
$$\frac{9}{12} \quad \frac{2}{3} \quad \frac{3}{7} \quad \frac{5}{6}$$



$$\frac{5}{9} \quad \frac{2}{3} \quad \frac{4}{6} \quad \frac{3}{5}$$



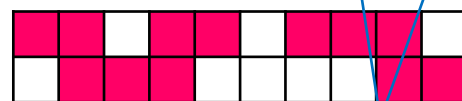
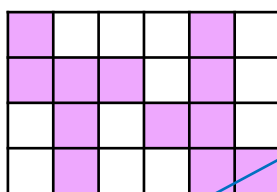
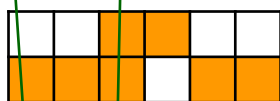
$$\frac{1}{5} \quad \frac{1}{9} \quad \frac{1}{2} \quad \frac{1}{3}$$



$$\frac{2}{15} \quad \frac{3}{4} \quad \frac{5}{6} \quad \frac{3}{5}$$



Match each fraction and sentence to the correct model.



12 out of 24 equal parts are shaded.

$$\frac{7}{14}$$

$$\frac{7}{16}$$

$$\frac{7}{12}$$

$$\frac{12}{20}$$

$$\frac{2}{24}$$

7 out of 14 equal parts are shaded.

12 out of 20 equal parts are shaded.

7 out of 16 equal parts are shaded.

7 out of 12 equal parts are shaded.

Twelve twentieths

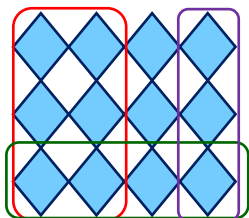
Seven fourteenths

Seven sixteenths

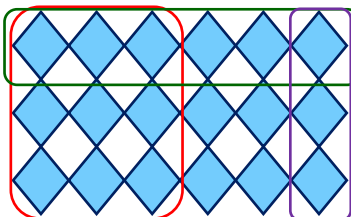
Seven twelfths

Twelve over twenty-four

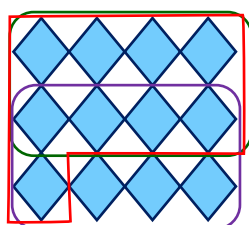
Which of the following fractions can not be circled in the picture?



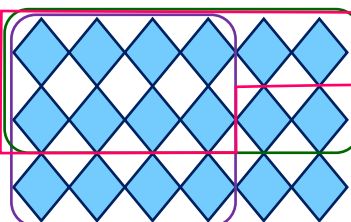
$$\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{5}$$



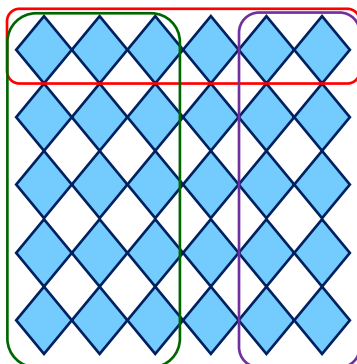
$$\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{6}$$



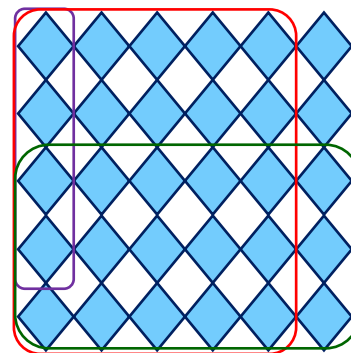
$$\frac{9}{12} \quad \frac{2}{3} \quad \frac{3}{7} \quad \frac{4}{6}$$



$$\frac{5}{9} \quad \frac{2}{3} \quad \frac{4}{6} \quad \frac{3}{5}$$

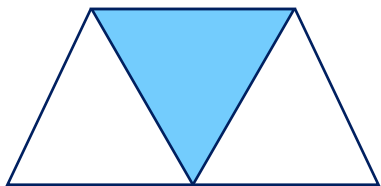


$$\frac{1}{5} \quad \frac{1}{2} \quad \frac{1}{9} \quad \frac{1}{3}$$

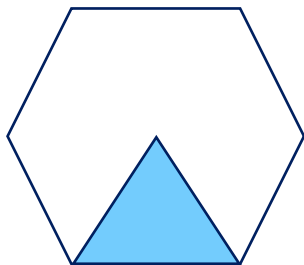


$$\frac{2}{15} \quad \frac{3}{4} \quad \frac{5}{6} \quad \frac{3}{5}$$

TRUE or FALSE?



One third of the shape is shaded.



One fifth of the shape is shaded.

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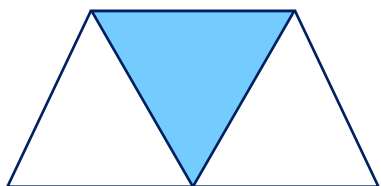
Sort the fractions into the table.

	Fractions equal to one whole	Fractions less than one whole
Unit fractions		
Non-unit fractions		

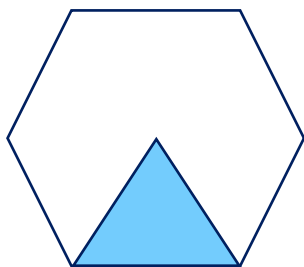
$\frac{3}{4}$	$\frac{1}{5}$	$\frac{1}{3}$	$\frac{4}{4}$	$\frac{4}{5}$	$\frac{3}{5}$	$\frac{3}{3}$
---------------	---------------	---------------	---------------	---------------	---------------	---------------

Are there any boxes in the table empty? Why?

TRUE or FALSE?



One third of the shape is shaded.



One fifth of the shape is shaded.

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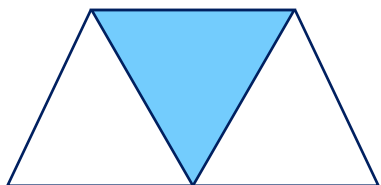
Sort the fractions into the table.

	Fractions equal to one whole	Fractions less than one whole
Unit fractions		
Non-unit fractions		

$\frac{3}{4}$	$\frac{1}{5}$	$\frac{1}{3}$	$\frac{4}{4}$	$\frac{4}{5}$	$\frac{3}{5}$	$\frac{3}{3}$
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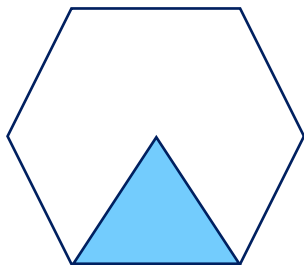
Are there any boxes in the table empty? Why?

TRUE or FALSE?



One third of the shape is shaded.

True, exactly one third is shaded.



One fifth of the shape is shaded.

False, one sixth is shaded.

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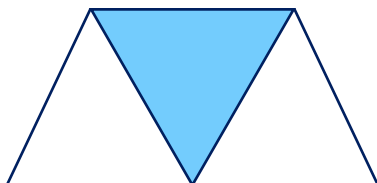
Sort the fractions into the table.

	Fractions equal to one whole		Fractions less than one whole	
Unit fractions			$\frac{1}{3}$	$\frac{1}{5}$
Non-unit fractions	$\frac{3}{3}$	$\frac{4}{4}$	$\frac{3}{5}$	$\frac{4}{5}$ $\frac{3}{4}$

Are there any boxes in the table empty? Why?

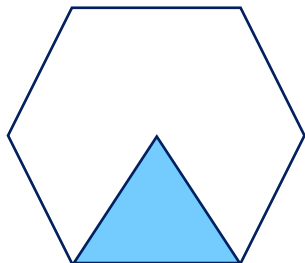
There are no unit fractions that are equal to one whole other than $\frac{1}{1}$, but this fraction isn't in our list.

TRUE or FALSE?



One third of the shape is shaded.

True, exactly one third is shaded.



One fifth of the shape is shaded.

False, one sixth is shaded.

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Sort the fractions into the table.

	Fractions equal to one whole		Fractions less than one whole	
Unit fractions			$\frac{1}{3}$	$\frac{1}{5}$
Non-unit fractions	$\frac{3}{3}$	$\frac{4}{4}$	$\frac{3}{5}$	$\frac{4}{5}$ $\frac{3}{4}$

Are there any boxes in the table empty? Why?

There are no unit fractions that are equal to one whole other than $\frac{1}{1}$, but this fraction isn't in our list.