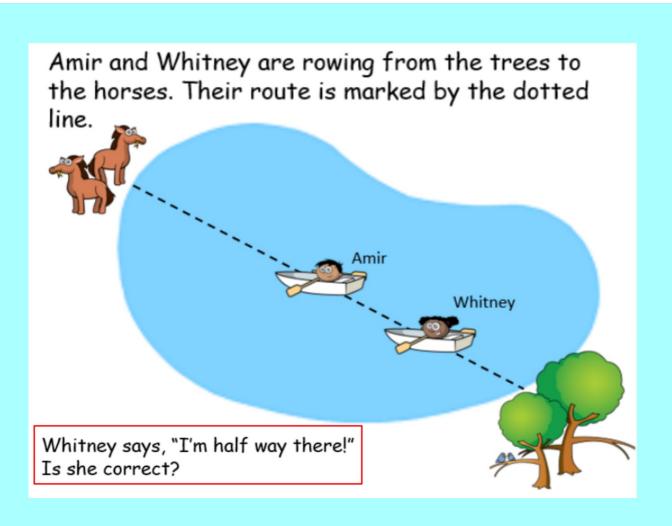
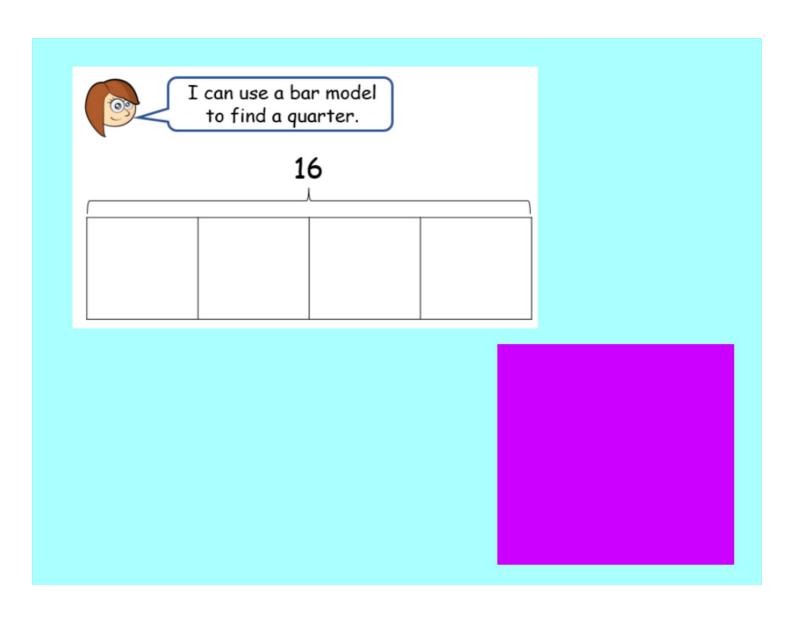


Here are 12 cakes.
They are shared equally between 4 plates.



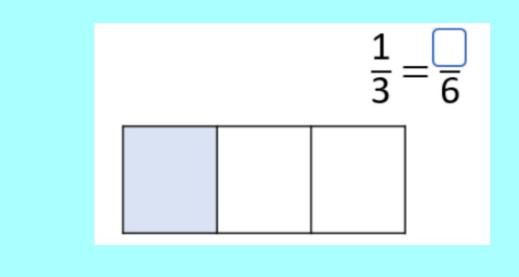


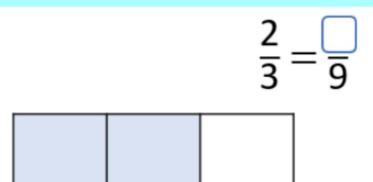
Here is $\frac{1}{4}$ of Ron's marbles. How many marbles does Ron have altogether?



$$\frac{1}{4}$$
 of $\boxed{}$ = 2

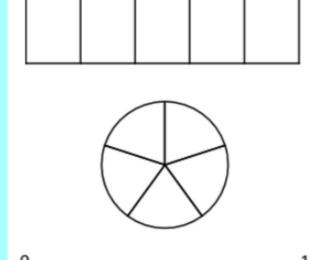
Group A start

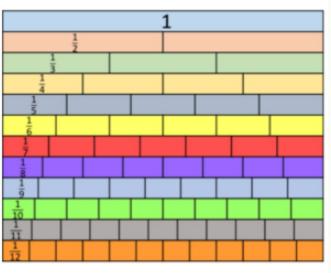




Use the different representations to find the equivalent fraction.

$$\frac{4}{5} = \frac{10}{10}$$



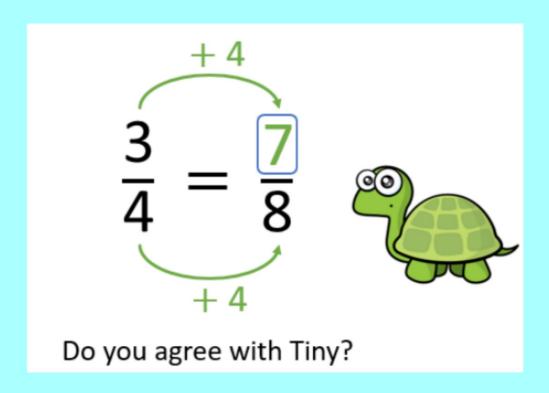


$$\frac{4}{5} = \frac{8}{10}$$

What do you notice?

$$\frac{1}{3} = \frac{2}{6}$$

$$\frac{2}{3} = \frac{6}{9}$$



$$\frac{3}{4} = \frac{16}{16}$$

$$\frac{2}{9} = \frac{6}{1}$$

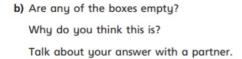
$$\frac{7}{1} = \frac{14}{20}$$

$$\frac{3}{7} = \boxed{}$$

How can we find the missing numerators and denominators?

$$\frac{3}{20} = \frac{9}{20} = \frac{6}{8}$$

Complete the equivalent fractions. shade the diagrams to help you complete the equivalent fractions. a) $\frac{1}{5} = \frac{}{10}$ d) $\frac{3}{10} = \frac{9}{}$ g) $\frac{8}{12} = \frac{2}{}$ The first one has been done for you. 1) $\frac{1}{3} = \frac{2}{6}$ b) $\frac{4}{5} = \frac{10}{10}$ e) $\frac{6}{8} = \frac{3}{10}$ h) $\frac{2}{25} = \frac{10}{25}$ 0) :) a) Write the fractions in the correct place on the sorting diagram. <u>5</u> 15 <u>9</u> 36 3 12 4/12 Draw a diagram to show that $\frac{3}{4} = \frac{6}{8}$ equivalent to $\frac{1}{3}$ equivalent to Match the equivalent fractions. odd $\frac{1}{4}$ 10 10 15 denominator even denominator 3 12

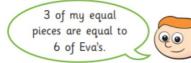






Eva and Ron have a baguette each.
The baguettes are the same size.

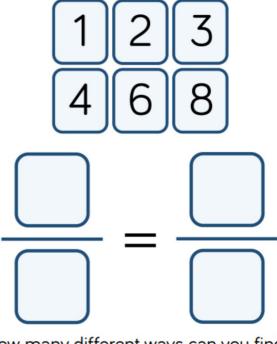
Eva cuts her baguette into 8 equal pieces.



How many equal pieces has Ron cut his baguette into?

Extension

Use the digit cards to complete the equivalent fractions.

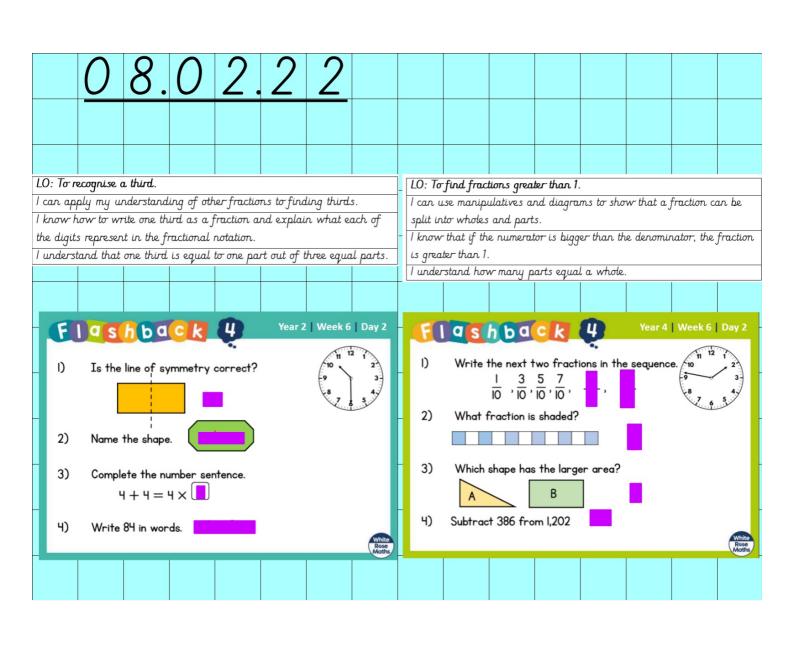


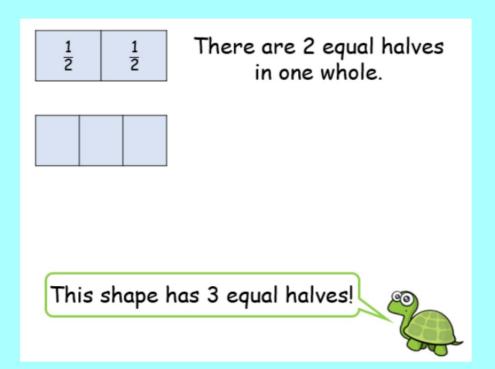
How many different ways can you find?

Equivalent fractions (2)

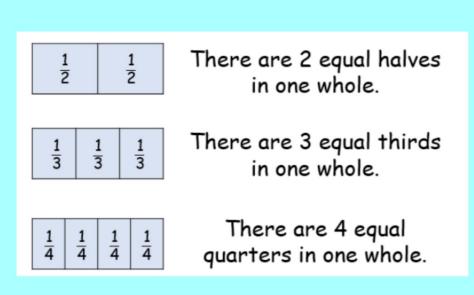
$$\frac{6}{27} = \frac{16}{72}$$





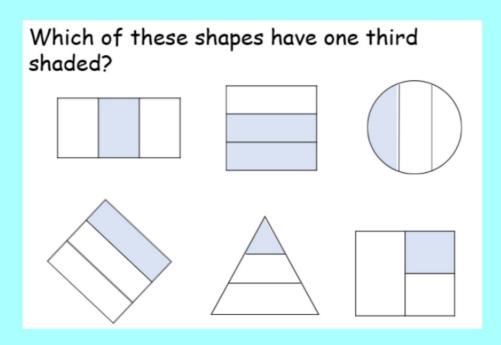


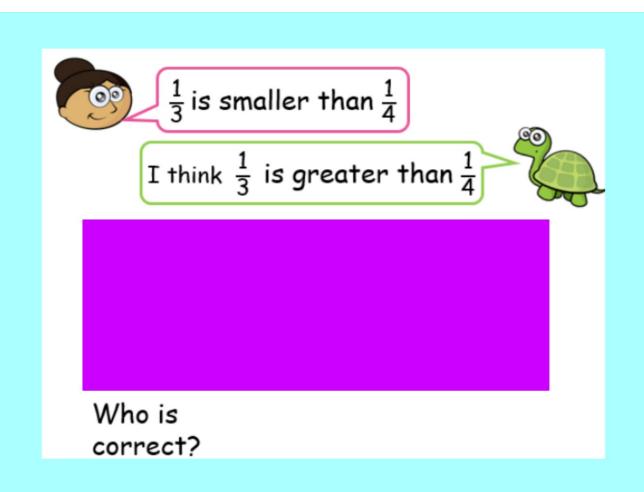
Is Tiny's wording correct?



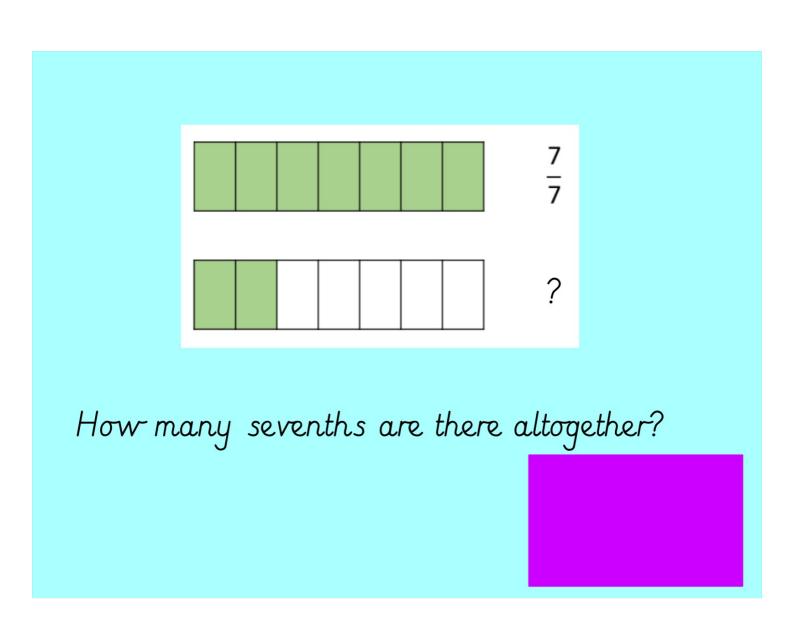
What does the bottom number tell us?

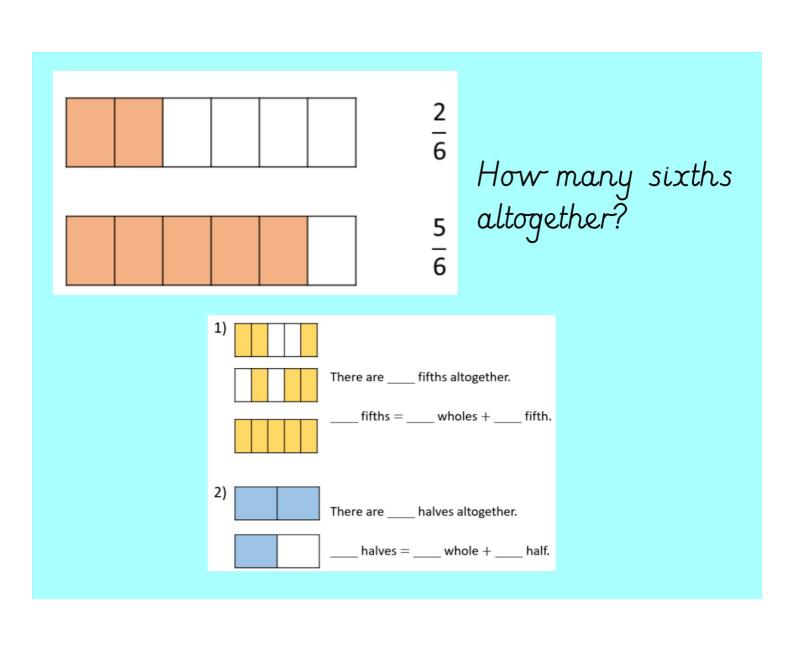
What are the top and bottom numbers called in a fraction?



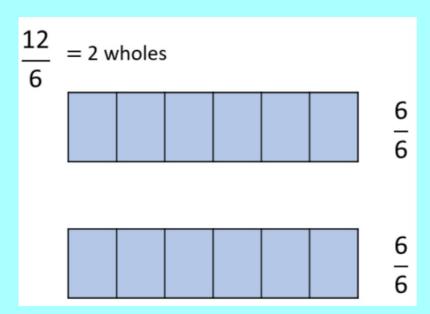


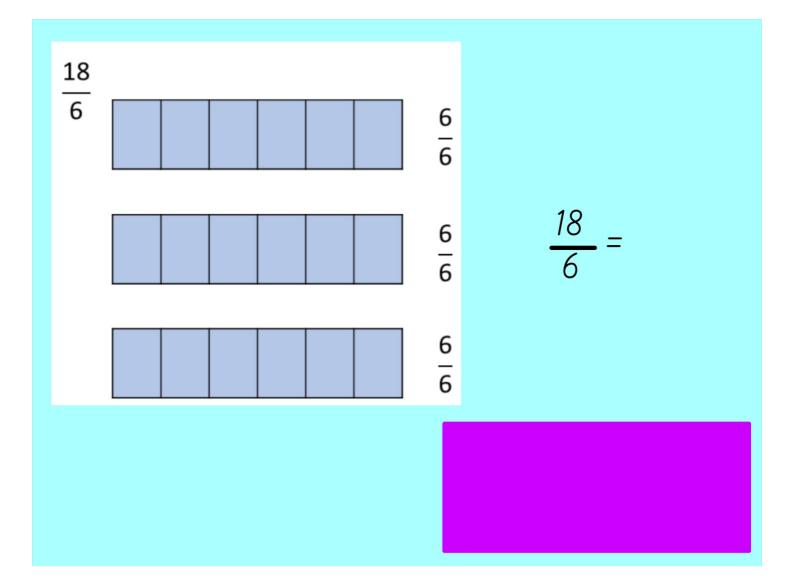
Group A start



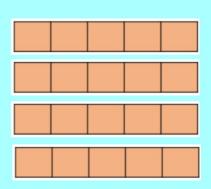


12 Improper fraction

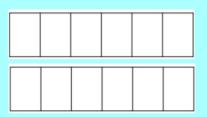








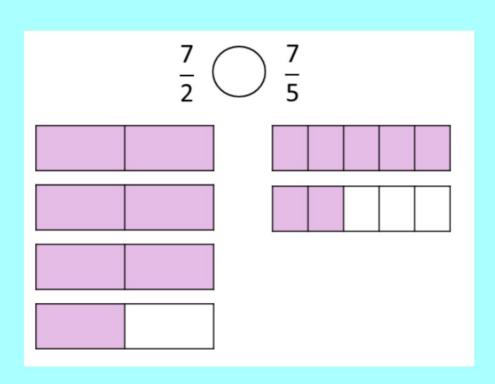
 $\frac{10}{6}$

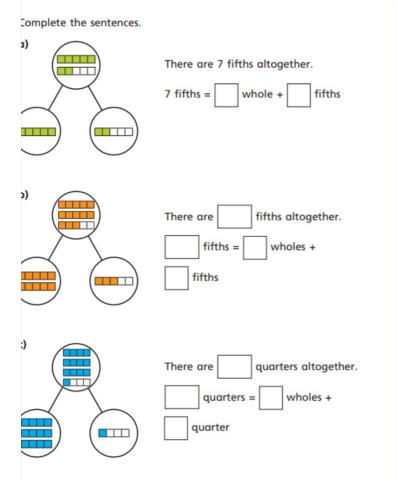


1)
$$\frac{11}{3} =$$
 wholes $+$ thirds

2)
$$\frac{9}{2} =$$
___ wholes $+$ ___ half

3)
$$\frac{20}{7} = \underline{\qquad}$$
 wholes $+\underline{\qquad}$ sevenths





	snade bar models to represent the tractions.
	Complete the number sentences.
	a) $\frac{5}{3}$ $\frac{5}{3}$ = whole + thirds =
	b) $\frac{8}{3}$
	c) $\frac{8}{5}$ $\frac{8}{5}$ = whole + fifths =
3	Complete the statements.
	a) $\frac{12}{2} = $ wholes e) $\frac{15}{3} = $ wholes
	b) $\frac{12}{4} = $ wholes f) $\frac{15}{5} = $ wholes
	c) $\frac{12}{6}$ = wholes g) $\frac{15}{4}$ = wholes + quart
	d) $\frac{12}{3}$ = wholes h) $\frac{15}{2}$ = wholes + half
4	Whitney bakes 26 muffins.
	Muffins are packed in boxes of 4
	a) How many boxes can Whitney fill?
	b) How many more muffins does Whitney need to fill anot
	Explain how you know

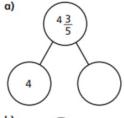
How does writing $\frac{26}{4}$ help you to answer this?

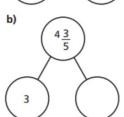
Write <, > or = to complete the statements.

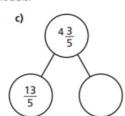
2 wholes and 3 quarters

- 2 wholes and 3 quarters
- 5 quarters
- 2 wholes and 3 sixths 15 sixths c)
- 2 wholes and 3 eighths 15 eighths d)
- e)
- <u>20</u> 4 <u>15</u> 3 f)

Complete the part-whole models.



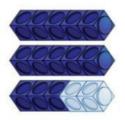




15 quarters

Extension

Spot the mistake.



 $\frac{13}{5}$ = 10 wholes and 3 fifths

Rosie says,

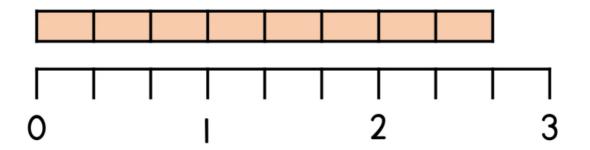


 $\frac{16}{4}$ is greater than $\frac{8}{2}$ because 16 is greater than 8

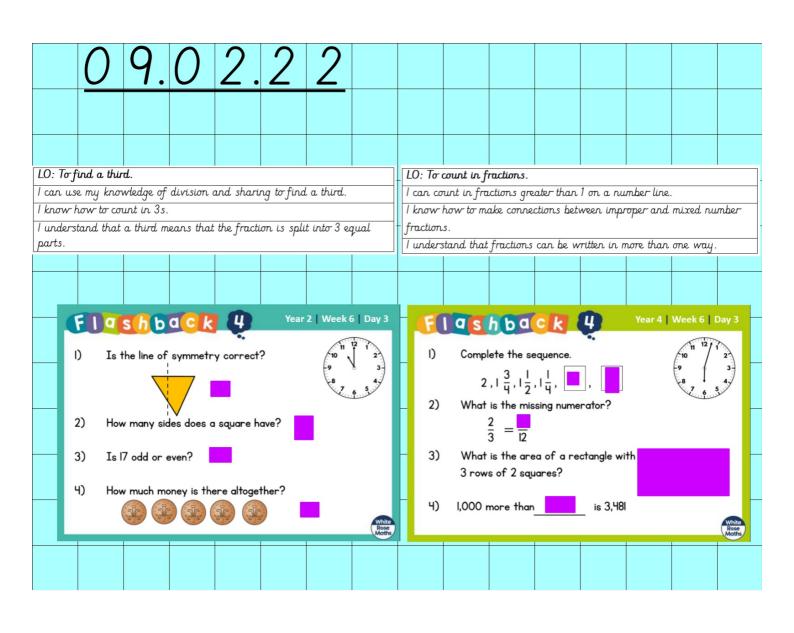
Do you agree? Explain why.

True or False?

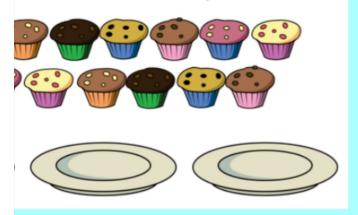
The diagram shows $3\frac{2}{3}$







kes. d equally onto 3 plates. s will be on each plate?

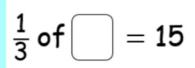


Ron and Amir use an array to find of 18





Annie uses a bar model to find $\frac{1}{3}$ of 21

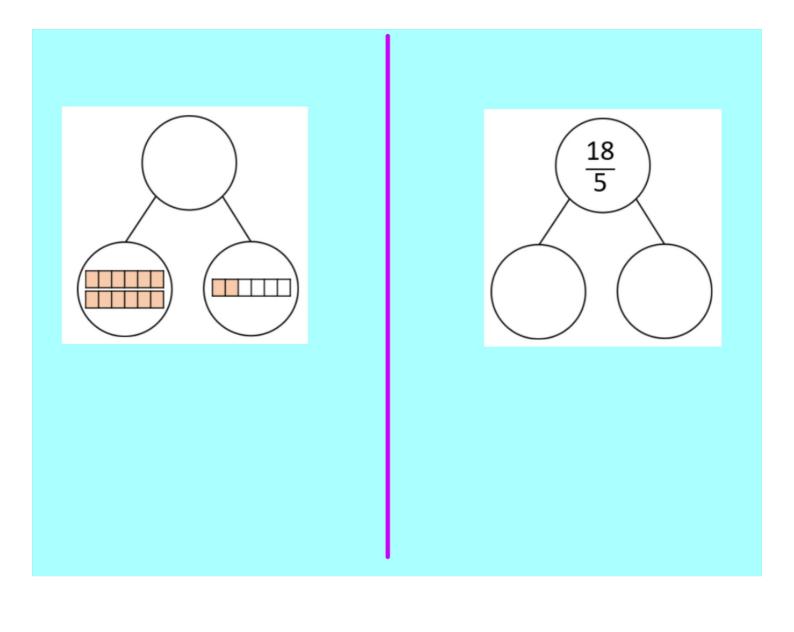


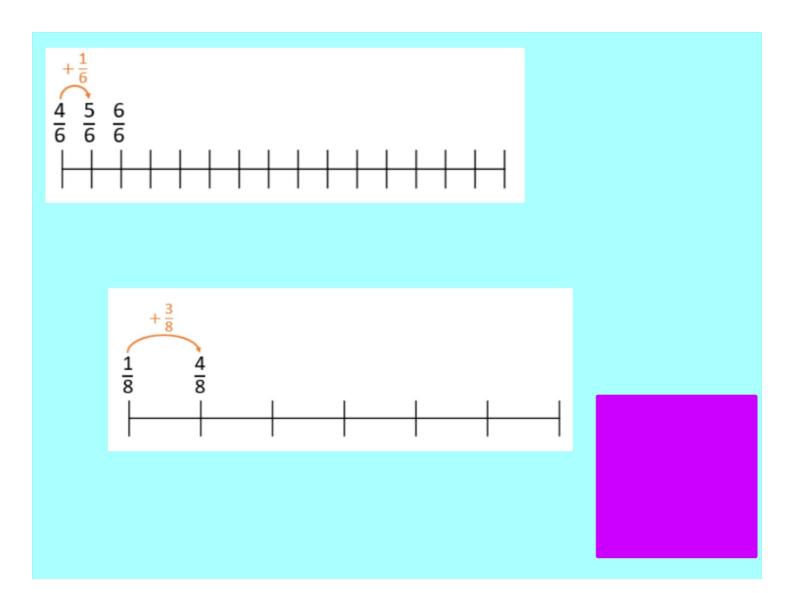


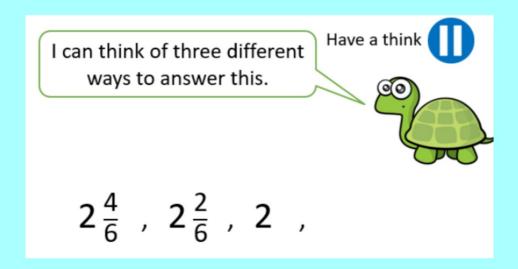
Jack has one third of his birthday money left. Dora has half of her birthday money left. They both have £10 left.

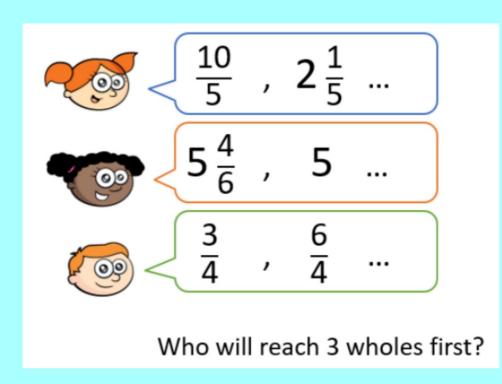
What do you know? What can you find out?

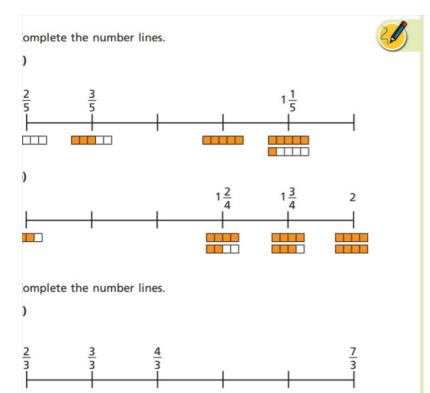
Group A start











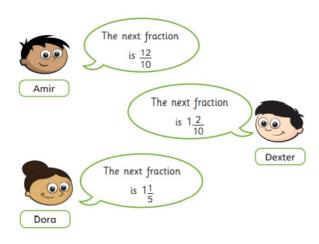
)

2



- 3) Write the next three fractions in each sequence.
 - a) $\frac{1}{8}$, $\frac{2}{8}$, $\frac{3}{8}$...
 - b) $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$...
 - c) $\frac{1}{4}$, $\frac{3}{4}$, $1\frac{1}{4}$...
 - d) 4, $3\frac{1}{3}$, $2\frac{2}{3}$...
- What is the missing fraction?
 Give two possible answers.
 - a) $\frac{8}{3}$, $\frac{12}{3}$, $\frac{16}{3}$, $\frac{20}{3}$, $\frac{28}{3}$, $\frac{32}{3}$
 - **b)** $\frac{8}{5}$, $\frac{12}{5}$, $\frac{16}{5}$, $\frac{20}{5}$, $\frac{28}{5}$, $\frac{32}{5}$
 - c) $\frac{8}{7}$, $\frac{12}{7}$, $\frac{16}{7}$, $\frac{20}{7}$, $\frac{28}{7}$, $\frac{32}{7}$

$$\frac{8}{10}$$
, $\frac{9}{10}$, $\frac{10}{10}$, $\frac{11}{10}$



- a) Who is correct?Explain your answer.
- b) Compare answers with a partner.

Extension

Here is a number sequence.

$$\frac{5}{12}$$
, $\frac{7}{12}$, $\frac{10}{12}$, $\frac{14}{12}$, $\frac{19}{12}$,

Which fraction would come next? Can you write the fraction in more than one way?

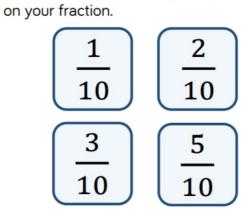
Circle and correct the mistakes in the sequences.

$$\frac{5}{12}$$
, $\frac{8}{12}$, $\frac{11}{12}$, $\frac{15}{12}$, $\frac{17}{12}$

$$\frac{9}{10}$$
, $\frac{7}{10}$, $\frac{6}{10}$, $\frac{3}{10}$, $\frac{1}{10}$

Extension

Play the fraction game for four players.
Place the four fraction cards on the floor.
Each player stands in front of a fraction.
We are going to count up in tenths
starting at O
When you say a fraction, place your foot



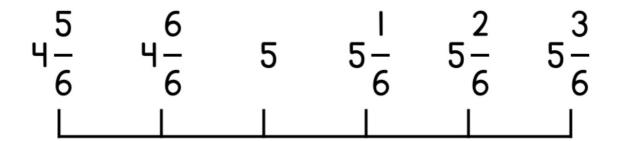
How can we make 4 tenths? What is the highest fraction we can count to?

How about if we used two feet?

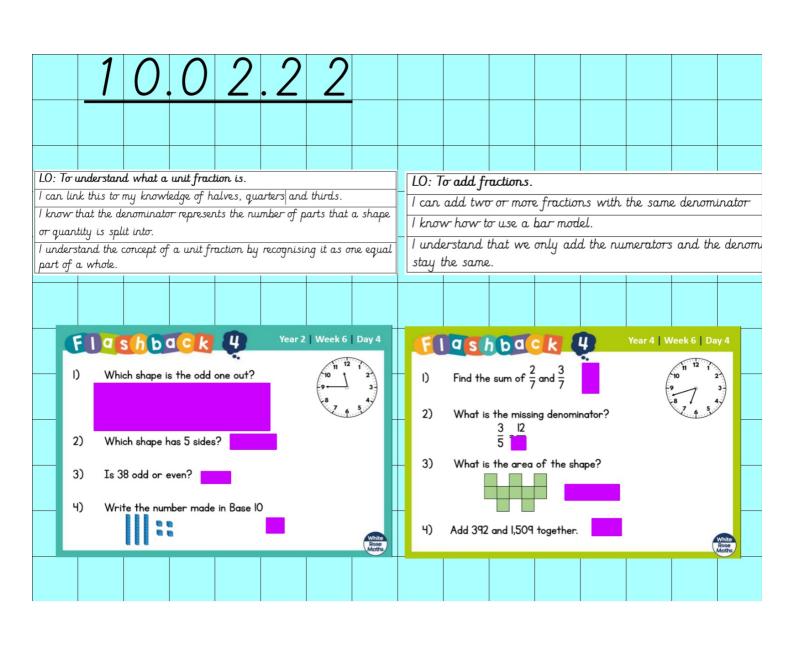
Count in fractions



Rosie has counted correctly in sixths along a number line.







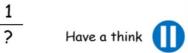
What fraction of these squares has been shaded?



What fraction of each shape is shaded?

What is the fraction called when there is a 1 in the numerator?

A unit fraction is a fraction where the numerator is 1



Does this represent a unit fraction?

$$\frac{1}{73}$$

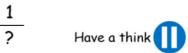
A unit fraction is a fraction where the numerator is 1



Does this represent a unit fraction?

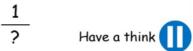


A unit fraction is a fraction where the numerator is 1



Does this represent a unit fraction?

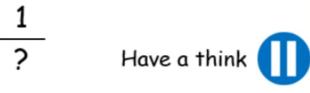
A unit fraction is a fraction where the numerator is 1



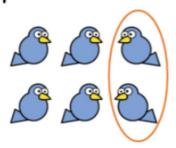
Does this represent a unit fraction?



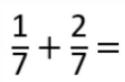
A unit fraction is a fraction where the numerator is 1

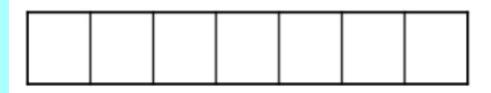


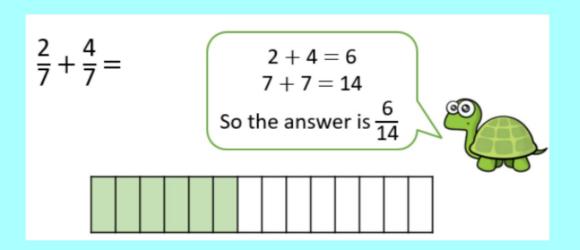
Does this represent a unit fraction?



Group A start



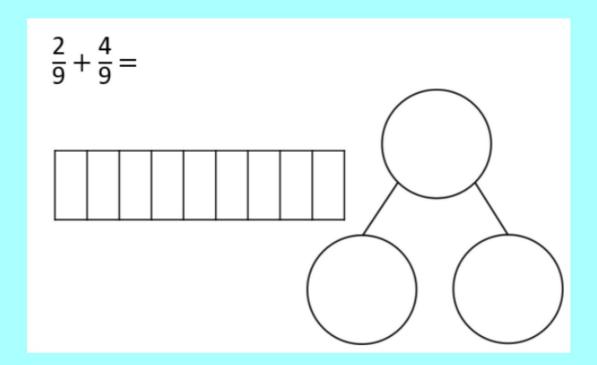




Do you think that Tiny is right?

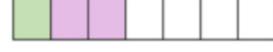
$$2 \underline{\text{hundreds}} + 4 \underline{\text{hundreds}} = 6 \underline{\text{hundreds}}$$

$$2 \frac{\text{sevenths}}{4} + 4 \frac{\text{sevenths}}{4} = 6 \frac{\text{sevenths}}{4}$$

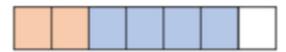


$$\frac{1}{7} + \frac{2}{7} = \frac{3}{7}$$

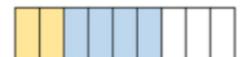
What do you notice?

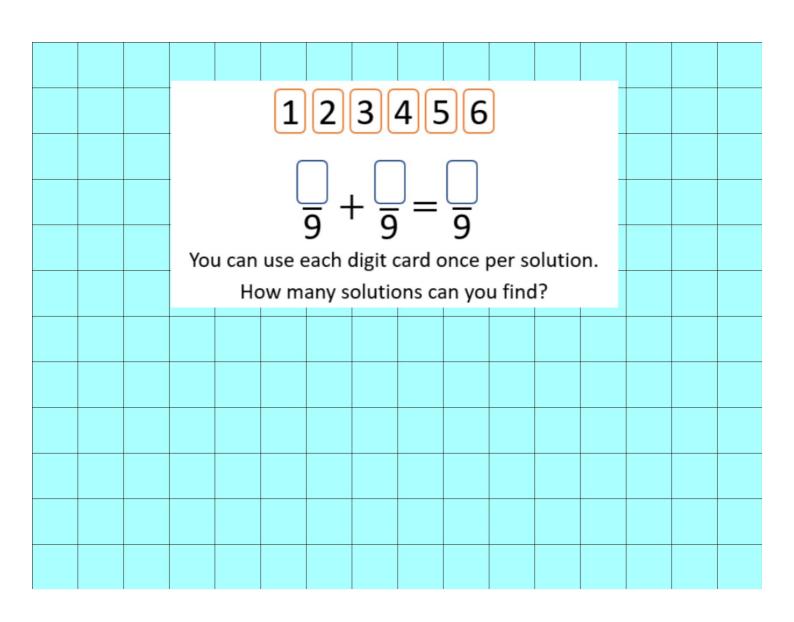


$$\frac{2}{7} + \frac{4}{7} = \frac{6}{7}$$



$$\frac{2}{9} + \frac{4}{9} = \frac{6}{9}$$





Complete the additions.

Use the bar models to help you.



b)
$$\frac{1}{5} + \frac{1}{5} =$$

$$\frac{1}{5} + \frac{2}{5} =$$

d)
$$\frac{1}{5} + \frac{3}{5} =$$



Shade circles like this one to help you complete the additions.

a)
$$\frac{1}{8} + \frac{3}{8} =$$

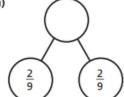
c)
$$\frac{3}{8} + \frac{3}{8} =$$

b)
$$\frac{5}{8} + \frac{1}{8} =$$

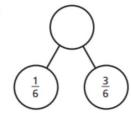
d)
$$\frac{5}{8} + \frac{3}{8} =$$

Complete the part-whole models.

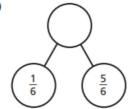




b)



c)



Which part-whole model is the odd one out?

Talk about your choice with a partner. Did they choose the odd one out?

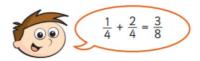
Alex and Huan are eating a cake.

Alex eats $\frac{4}{7}$ of the cake.

Huan eats $\frac{2}{7}$ of the cake.

What fraction of the cake have they eaten altogether?

Teddy is adding fractions.



- a) Draw a bar model to show that Teddy is wrong.
- b) Complete the addition $\frac{1}{4} + \frac{2}{4} =$

She puts them into 2 boxes.

What fraction of the muffins could she put in each box?

Complete the table to show different possibilities.

One has been done for you.

Box 1	Box 2
1/12	<u>11</u> 12

Are there any other possibilities? Talk about it with a partner.

Complete the additions.

a)
$$\frac{3}{8} + \frac{4}{8}$$

d)
$$\frac{3}{103} + \frac{4}{103}$$

b)
$$\frac{3}{9} + \frac{4}{9}$$

e)
$$\frac{5}{31} + \frac{9}{31}$$

c)
$$\frac{3}{29} + \frac{4}{29}$$

f)
$$\frac{17}{111} + \frac{33}{111}$$

Extension

Rosie and Whitney are solving:

$$\frac{4}{7} + \frac{2}{7}$$

Rosie says,



The answer is $\frac{6}{7}$

Whitney says,



The answer is $\frac{6}{14}$

Who do you agree with? Explain why.

Mo and Teddy share these chocolates.







They both eat an odd number of chocolates.

Complete this number sentence to show what fraction of the chocolates they each could have eaten.

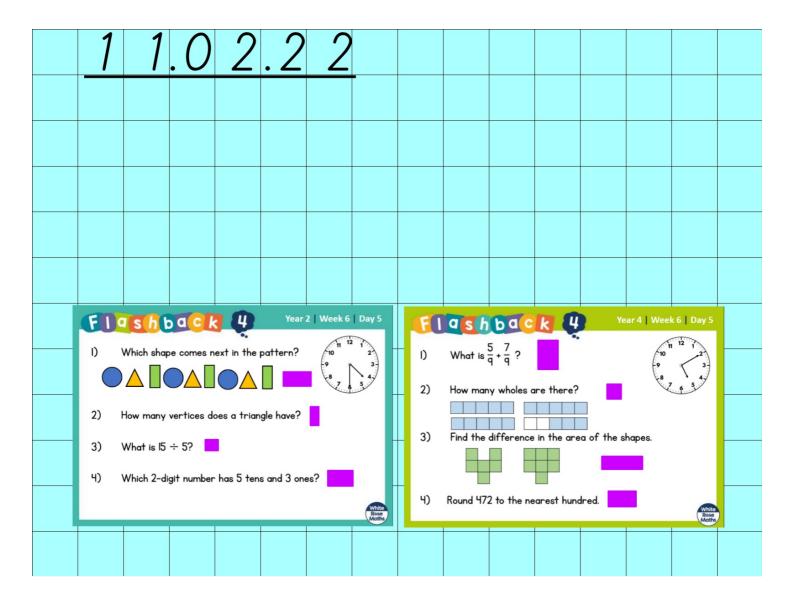
$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{12}{12}$$

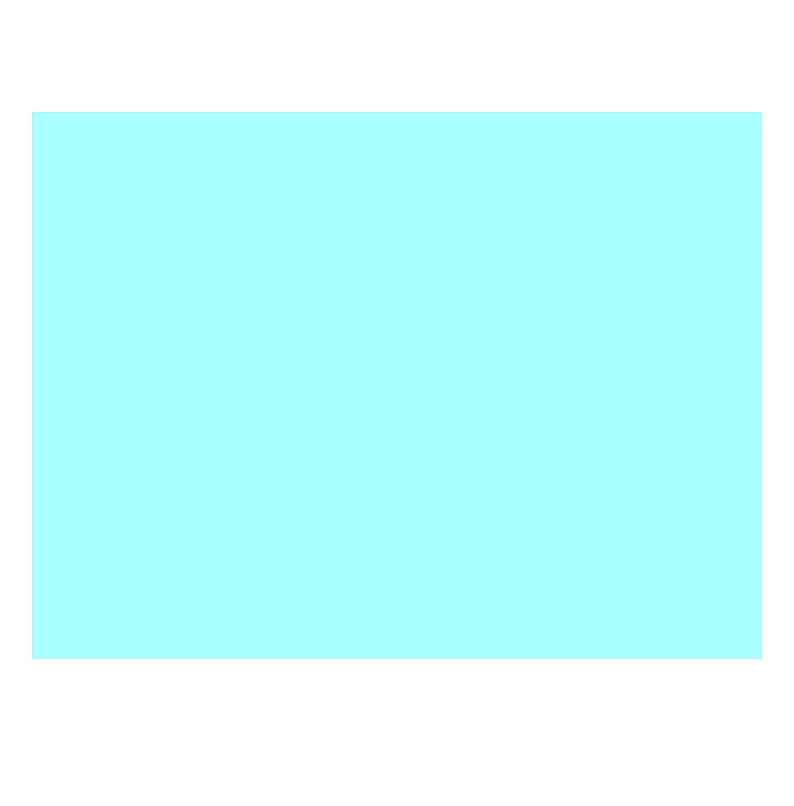
True or False?

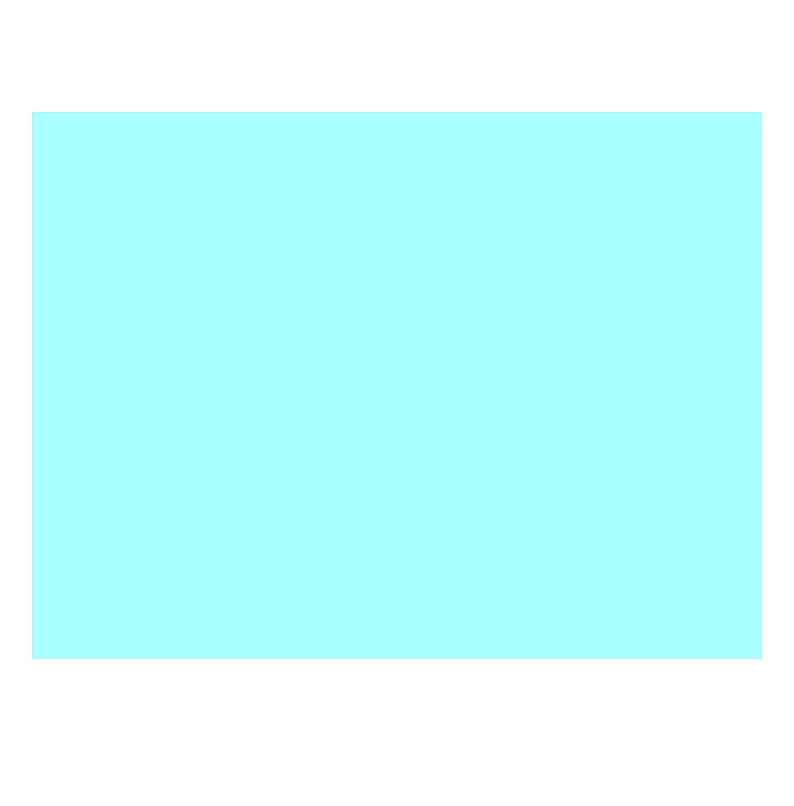
When you add fractions you add the numerators and the denominators.

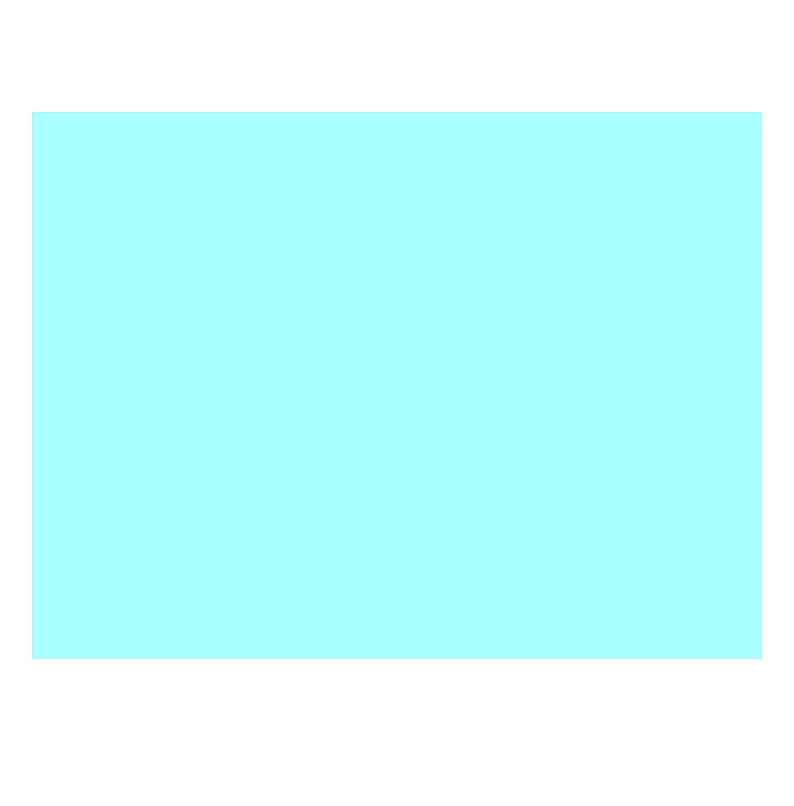
$$\frac{1}{5} + \frac{2}{5} = \frac{3}{10}$$

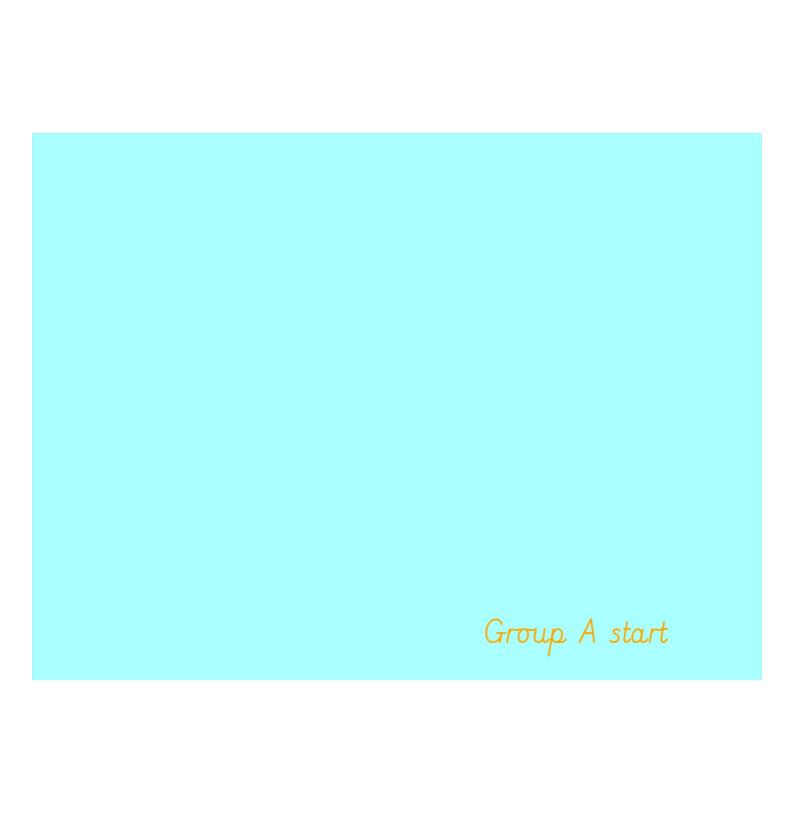


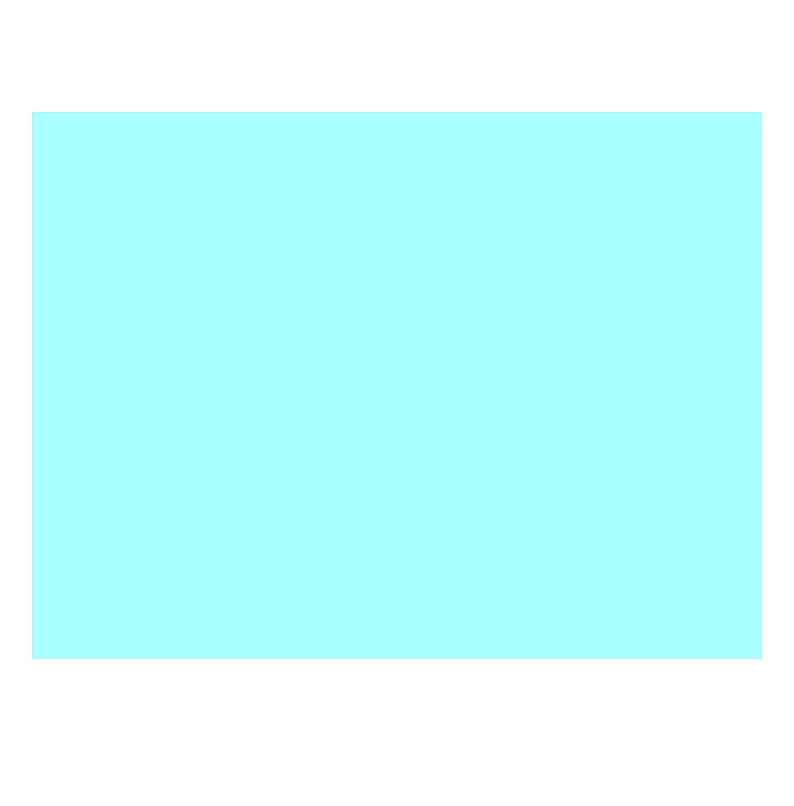


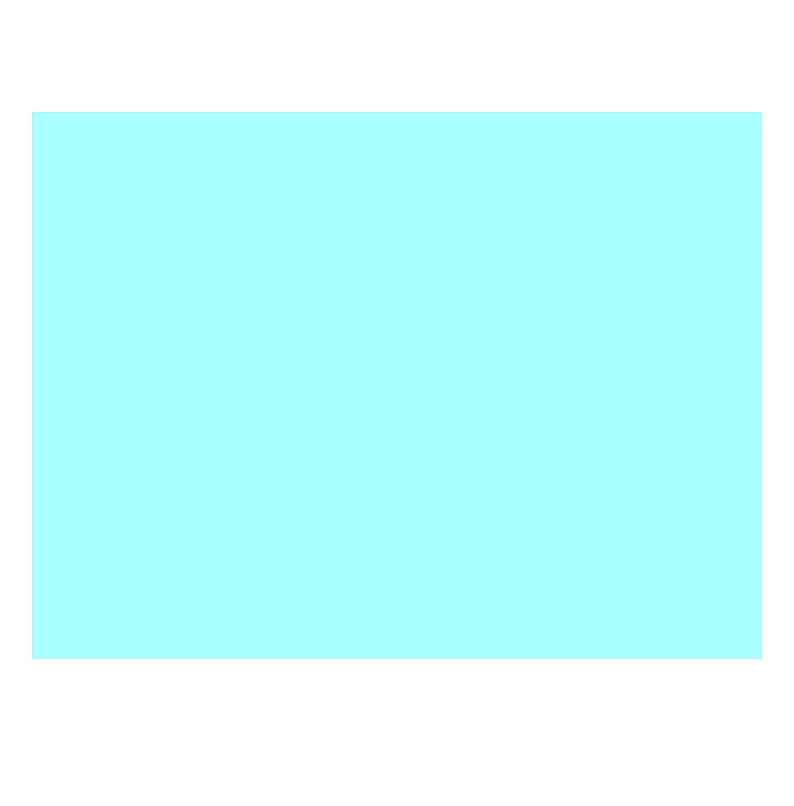


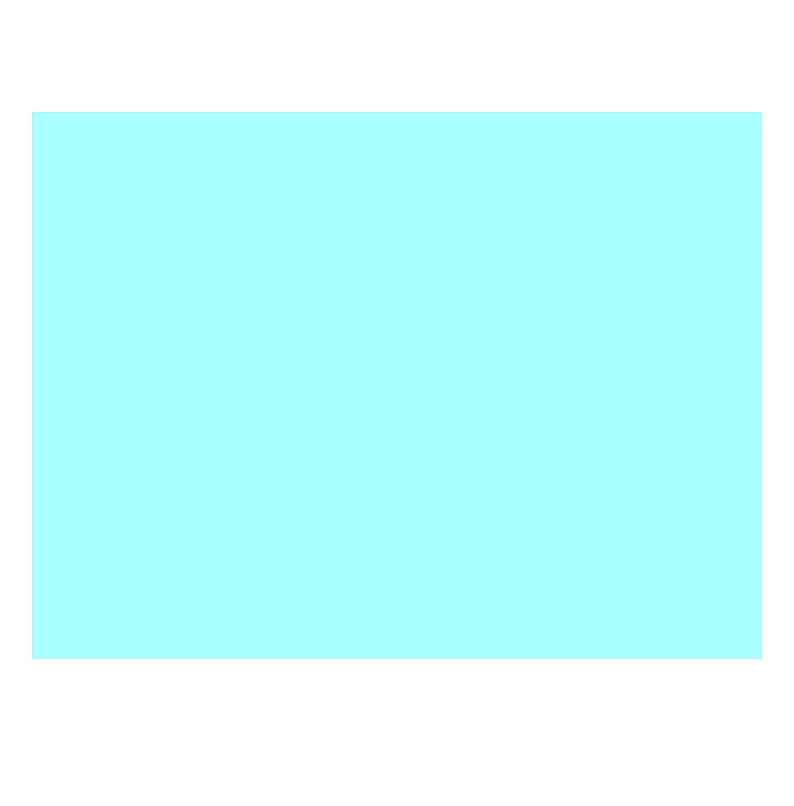


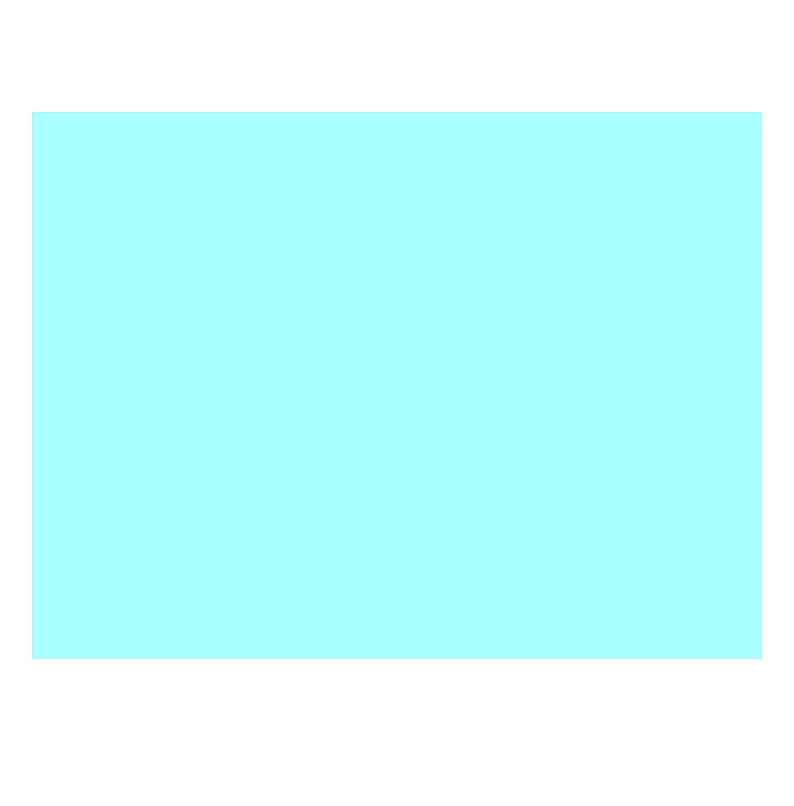


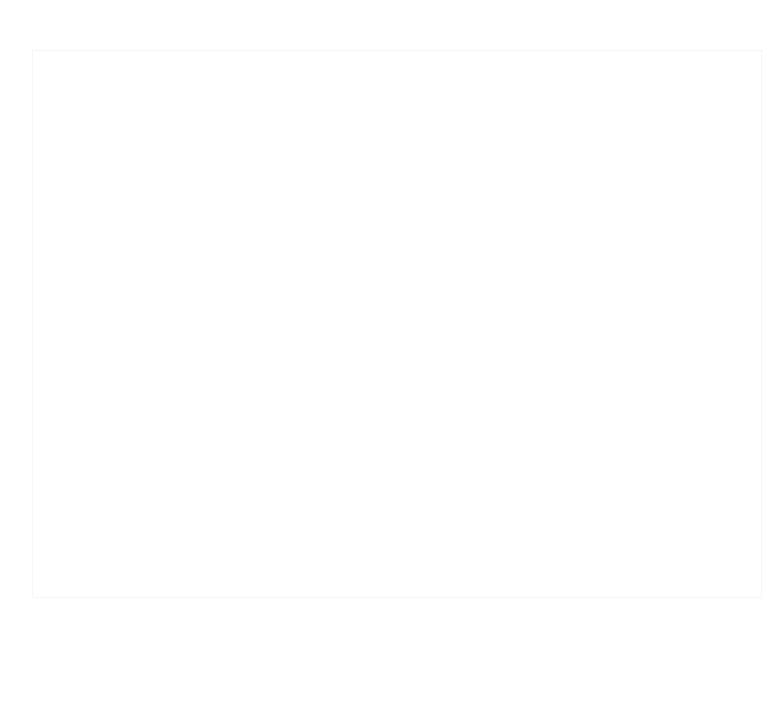














True of false?