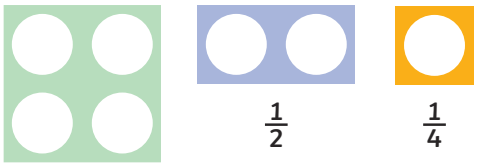
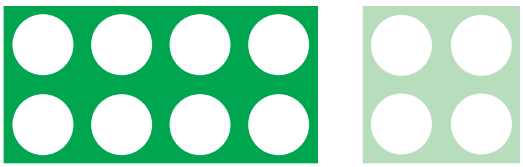
1) How many quarters are the same as $\frac{1}{2}$?



2)



Copy and complete the sentences:

a) A 4-shape is equivalent to _____ of 1 whole.

b) A 2-shape is equivalent to _____ of 1 whole.

c) A 1-shape is equivalent to _____ of 1 whole.

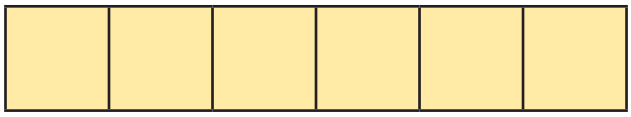
Answer these questions:

d) How many 2-shapes are equivalent to 1 whole?

e) How many 1-shapes are equivalent to 1 whole?

f) How many 4-shapes are equivalent to 1 whole?

3) The yellow cubes are joined to make 1 whole.

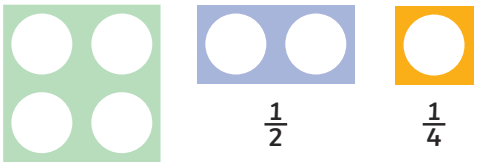


a) What fraction of the whole does 1 cube represent?

b) How many cubes represent $\frac{1}{3}$ of the whole?

c) How many sixths are equivalent to $\frac{1}{3}$?

1) How many quarters are the same as $\frac{1}{2}$?



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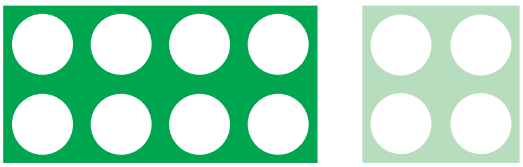

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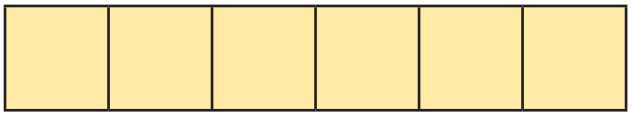

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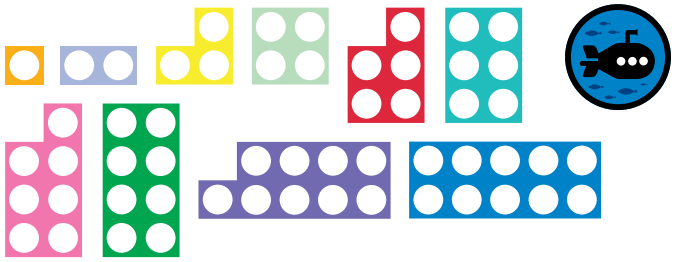
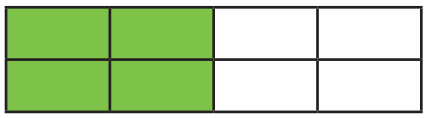


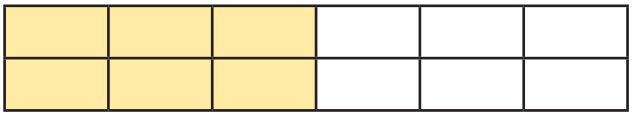
1) Use number shapes and cubes to represent $\frac{1}{4}$ in different ways and record them in your book.

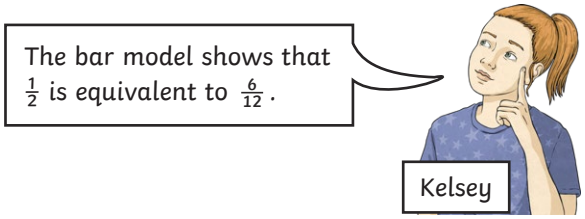
2)



Explain how the diagram represents both $\frac{1}{2}$ and $\frac{2}{4}$.

3)





a) Do you agree with Kelsey? Use reasoning to explain your answer.

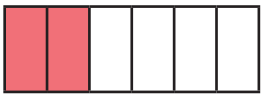
b) Which of these fractions is $\frac{1}{2}$ and $\frac{6}{12}$ also equivalent to? Explain how you know.

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

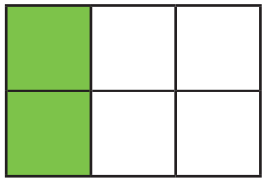
4) Which of the bar models is the odd one out? Circle and explain your answer.

a)

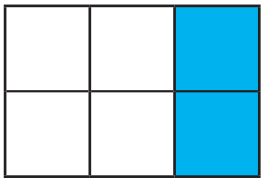
b)



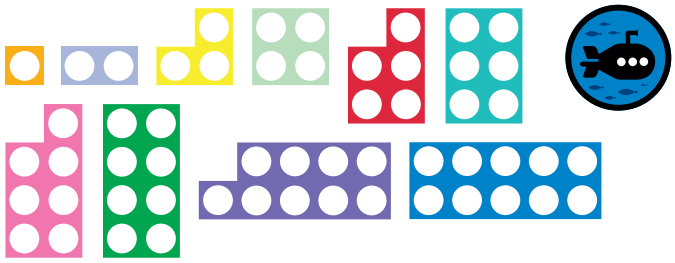
c)



d)

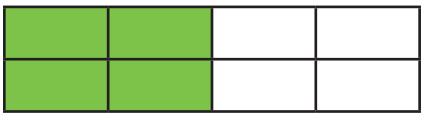


e)



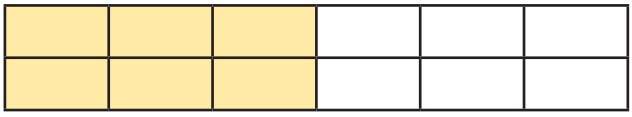
1) Use number shapes and cubes to represent $\frac{1}{4}$ in different ways and record them in your book.

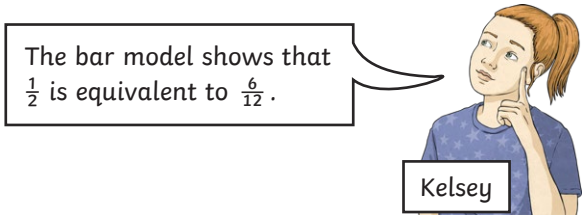
2)



Explain how the diagram represents both $\frac{1}{2}$ and $\frac{2}{4}$.

3)





a) Do you agree with Kelsey? Use reasoning to explain your answer.

b) Which of these fractions is $\frac{1}{2}$ and $\frac{6}{12}$ also equivalent to? Explain how you know.

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

4) Which of the bar models is the odd one out? Circle and explain your answer.

a)

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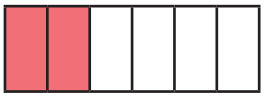
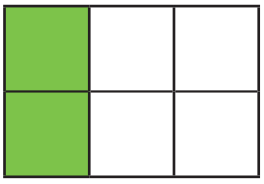
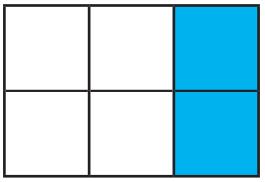


c)



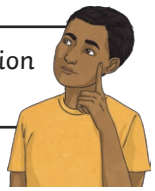
d)



e)

1) Two friends are discussing the bar model.

Which of the two friends do you agree with? Use reasoning to explain your answer.



I can make an equivalent fraction with a denominator of 10.

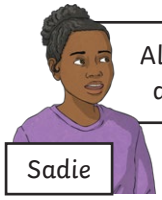
I can make an equivalent fraction with a denominator of 8.

2) Do you agree with Ahmed?
Within your explanation, provide examples where this may or may not be true.

Ahmed

When a denominator is an odd number, you cannot have an equivalent fraction.

3) Do you agree with Sadie? Use reasoning to explain your answer.



Sadie

All of these fractions are equivalent to $\frac{3}{8}$.

$\frac{6}{16}$  $\frac{9}{12}$

4) Sort the fractions into the table. If it is not equivalent to $\frac{1}{4}$ or $\frac{1}{3}$ write an example of a fraction it is equivalent to.

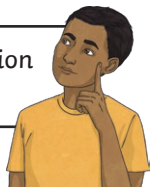
Equivalent to $\frac{1}{4}$	Equivalent to $\frac{1}{3}$	Equivalent to a Different Fraction

$\frac{8}{32}$ $\frac{2}{9}$ $\frac{4}{16}$ $\frac{2}{6}$ $\frac{3}{7}$ $\frac{8}{24}$

$\frac{4}{10}$ $\frac{4}{12}$ $\frac{2}{8}$

1) Two friends are discussing the bar model.

Which of the two friends do you agree with? Use reasoning to explain your answer.



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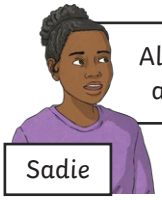
3) Do you agree with Sadie? Use reasoning to explain your answer.



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