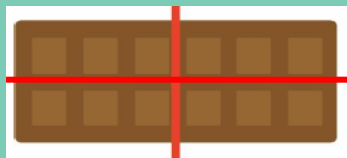


Finding fractions of amounts in the context of shape

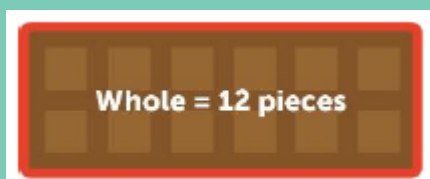
WORKED EXAMPLE

To find fractions of shapes, the parts need to be equal.



The chocolate is split into 4 equal parts.
Each quarter is made up of 3 pieces.

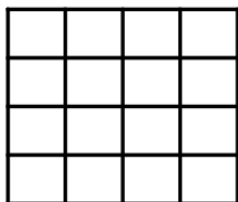
If the shape is already split into equal parts, these can be used to calculate fractions of the whole.



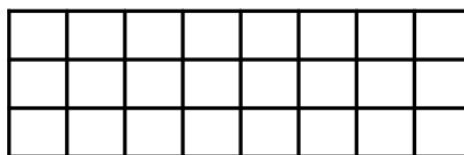
The whole chocolate is split into 12 equal pieces.
 $\frac{1}{4}$ of 12 = 3 so $\frac{1}{4}$ of the chocolate is made up of 3 pieces.

REHEARSE

Split each shape into 4 quarters and count the number of equally sized pieces.



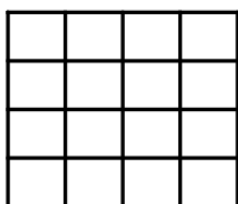
$\frac{1}{4}$ of the shape is ____ equally sized pieces.



$\frac{1}{4}$ of the shape is ____ equally sized pieces.

REHEARSE

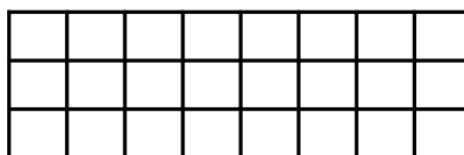
Show how you can use the number of equal parts in the whole shape to calculate $\frac{1}{4}$.



The whole has ____ equally sized pieces.

$\frac{1}{4}$ of ____ = ____.

$\frac{1}{4}$ of the shape is ____ equally sized pieces.



The whole has ____ equally sized pieces.

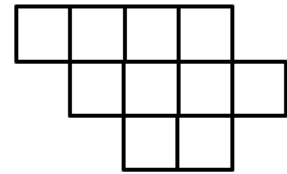
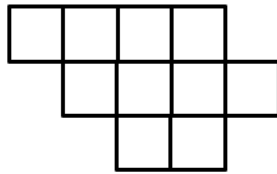
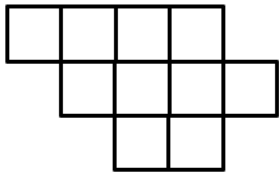
$\frac{1}{4}$ of ____ = ____.

$\frac{1}{4}$ of the shape is ____ equally sized pieces.

Use your calculation to colour $\frac{1}{4}$ of each shape in a way that is different to the way you split them.

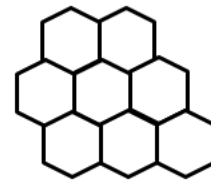
REHEARSE

Find $\frac{1}{2}$ of the shape and colour it in a different way on each.



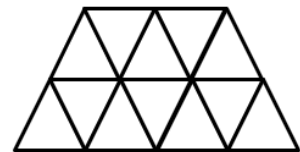
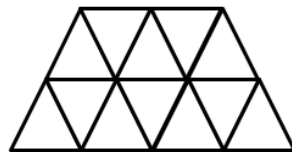
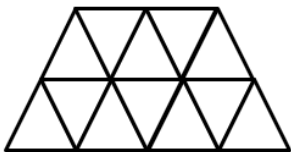
REHEARSE

Find $\frac{1}{4}$ of the shape and colour it in a different way on each.



REHEARSE

Find $\frac{1}{3}$ of the shape and colour it in a different way on each.



RETRIEVE

Can I still use days of the week and months of the year?

How many days in a week?

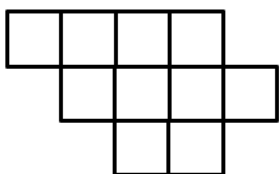
How many months in a year?

How many days in a fortnight (2 weeks)?

How many months in 2 years?

APPLY AND EXPLORE

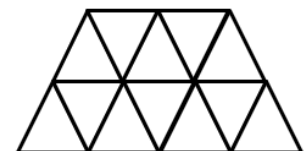
Tick the fractions of each shape that you can show by colouring equally sized pieces.



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



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



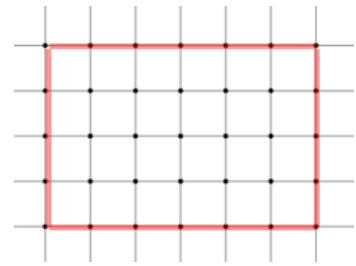
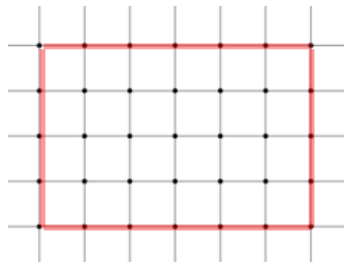
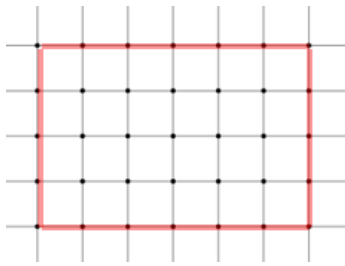
$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$

Are there any shapes where you can show $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{3}$ by shading equally sized pieces?

Why is this?

REHEARSE

Show $\frac{1}{2}$ on the first shape, $\frac{1}{4}$ on the second shape and $\frac{1}{3}$ on the third shape.



What is important about the shape so that you can show $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{3}$?

APPLY AND EXPLORE

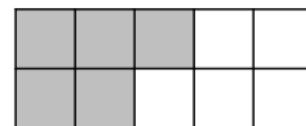
On a peg board or in your book, make a different shape where you can show $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{3}$.

APPLY AND EXPLORE

Use what you know about finding fractions of shapes to complete the models and sentences.

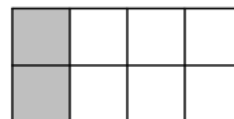
5 out of the 10 equally sized pieces are shaded.

That is $\frac{1}{2}$ because $\frac{1}{2}$ of ____ = ____.



2 out of the 8 equally sized pieces are shaded.

That is $\frac{1}{4}$ because $\frac{1}{4}$ of 8 = 2.



____ out of the ____ equally sized pieces are shaded.

That is $\frac{1}{5}$ because $\frac{1}{5}$ of ____ = ____.

