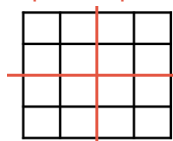


Finding fractions of amounts in the context of shape

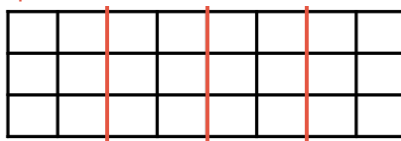
REHEARSE

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

Any appropriate splitting into 4 equal parts – examples below.



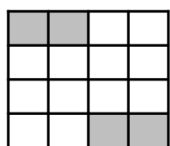
$\frac{1}{4}$ of the shape is 4 equally sized pieces.



$\frac{1}{4}$ of the shape is 6 equally sized pieces.

REHEARSE

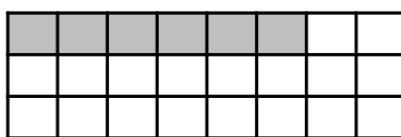
Show how you can use the number of equal parts in the whole shape to calculate $\frac{1}{4}$.



The whole has 16 equally sized pieces.

$\frac{1}{4}$ of 16 = 4.

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



The whole has 24 equally sized pieces.

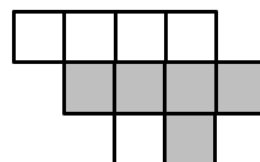
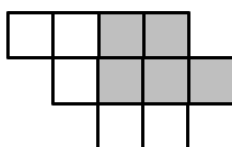
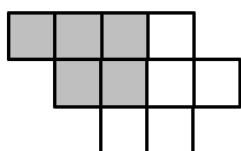
$\frac{1}{4}$ of 24 = 6.

$\frac{1}{4}$ of the shape is 6 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. Any relevant with the correct number of equally sized pieces shaded (4 and 6). Examples above.

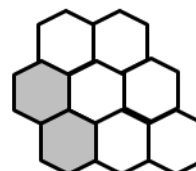
REHEARSE

Find $\frac{1}{2}$ of the shape and colour it in a different way on each. Any relevant responses with 5 parts shaded.



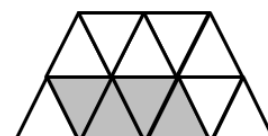
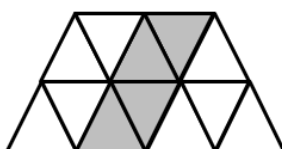
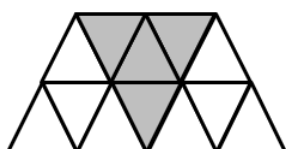
REHEARSE

Find $\frac{1}{4}$ of the shape and colour it in a different way on each. Any relevant responses with 2 parts shaded.



REHEARSE

Find $\frac{1}{3}$ of the shape and colour it in a different way on each. Any relevant responses with 4 parts shaded.



RETRIEVE

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

How many days in a week?

7 days

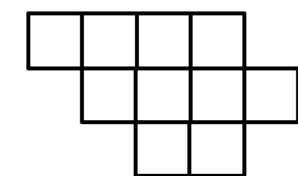
How many months in a year? 12 months

How many days in a fortnight (2 weeks)? 14 days

How many months in 2 years? 24 months

APPLY AND EXPLORE

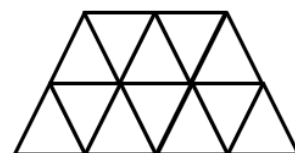
Tick the fractions of each shape that you can show by colouring equally sized pieces.



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



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



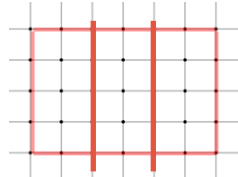
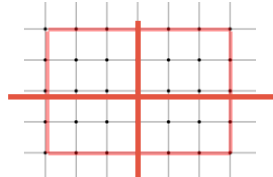
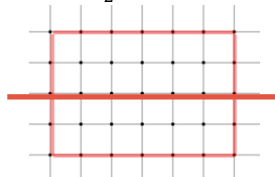
$\frac{1}{2}$ ✓ $\frac{1}{4}$ ✓ $\frac{1}{3}$ ✓

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? The last shape can show all the fractions as it is built from 12 equally sized pieces and 12 can be split equally into groups of 2, 3 and 4.

REHEARSE

Show $\frac{1}{2}$ on the first shape, $\frac{1}{4}$ on the second shape and $\frac{1}{3}$ on the third shape. Any relevant – examples below.



What is important about the shape so that you can show $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{3}$? It has 24 equal parts and 24 can be split equally into groups of 2, 3 and 4.

APPLY AND EXPLORE

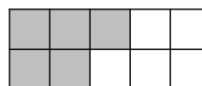
On a peg board or in your book, make a different shape, where you can show $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{3}$. Any relevant. This will include equally sized pieces in any multiple of 12 so that it can be split equally into groups of 2, 3 and 4.

APPLY AND EXPLORE

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

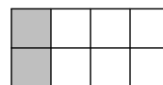
5 out of the 10 equally sized pieces are shaded.

That is $\frac{1}{2}$ because $\frac{1}{2}$ of 10 = 5.



2 out of the 8 equally sized pieces are shaded.

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



5 out of the 15 equally sized pieces are shaded.

That is $\frac{1}{3}$ because $\frac{1}{3}$ of 15 = 5.

