

Place Value

Monday 22nd June 2020

L.0 – I am learning to answer questions on fractions.

Fractions- Revision

Watch these videos to revise fractions:

Simplifying Fractions:

<https://vimeo.com/413667939>

Compare and Order Fractions:

<https://vimeo.com/413668473>

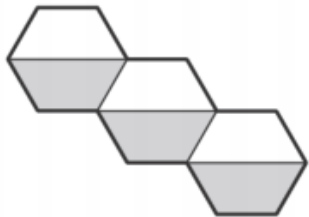
Finding equivalent fractions:

<https://corbettmaths.com/2013/02/15/equivalent-fractions/>

Try these questions:

Here are three shapes made from regular hexagons.

Write the fraction of each shape that is shaded.



How do I work out the denominator?

How do I work out the numerator?

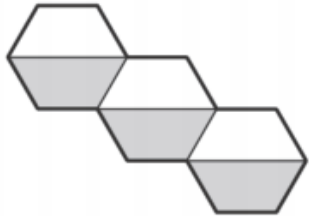
Answers:

Here are three shapes made from regular hexagons.

Write the fraction of each shape that is shaded.



$$\frac{1}{4}$$



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



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

How do I work out the denominator?

Count the total number of shapes.

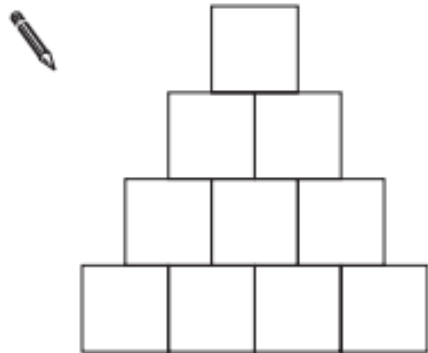
How do I work out the numerator?

Count how many are shaded.

Then see if they can be simplified.

Try this question:

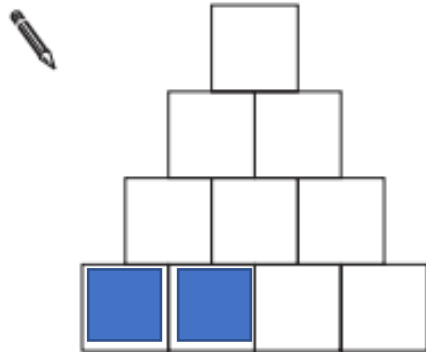
Shade $\frac{1}{5}$ of this shape.



There are more than 5 squares so
how to I work out $\frac{1}{5}$?

Answer:

Shade $\frac{1}{5}$ of this shape.



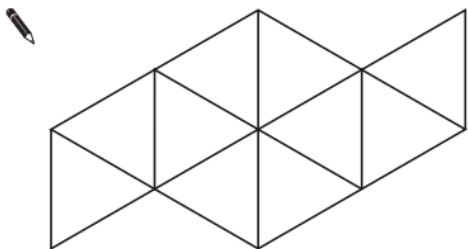
There are more than 5 squares so how to I work out $\frac{1}{5}$?

There are 10 squares so I need to change the denominator of 5 into 10.

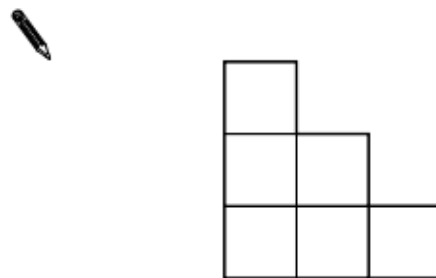
I can do that by doubling the denominator and numerator so I must shade in 2 squares.

Now try these:

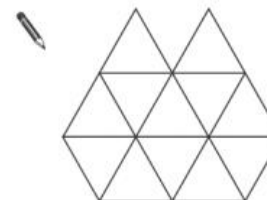
Shade $\frac{1}{5}$ of this shape.



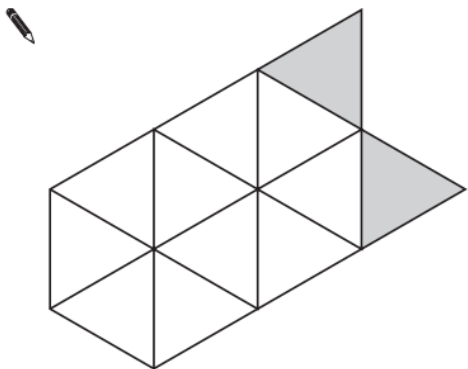
Shade **one third** of this shape.



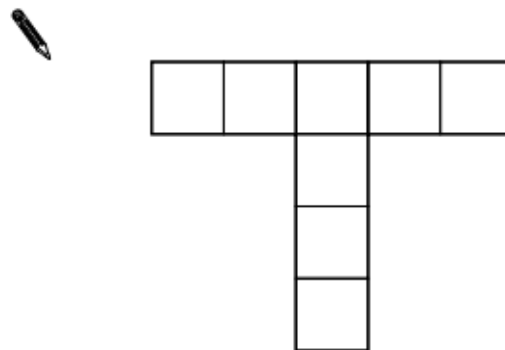
Shade $\frac{1}{4}$ of this shape.



Shade **more** triangles on this shape so that $\frac{1}{3}$ is shaded.

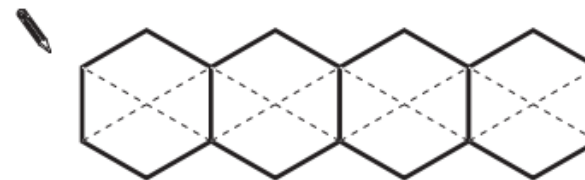


Shade **one quarter** of this shape.



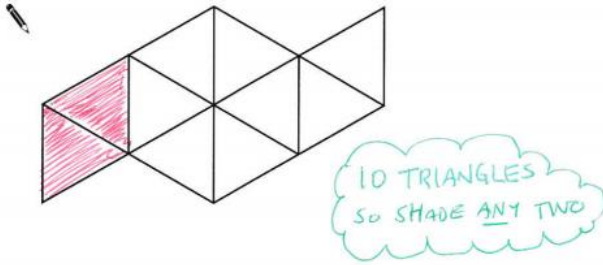
This diagram shows four regular hexagons.

Shade in **one third** of the diagram.

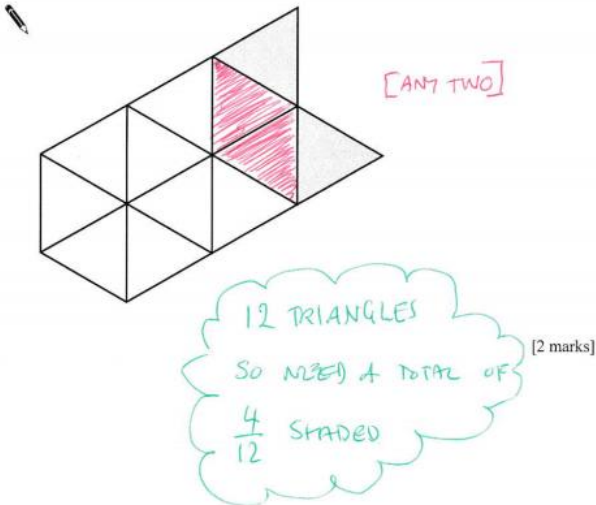


Answers:

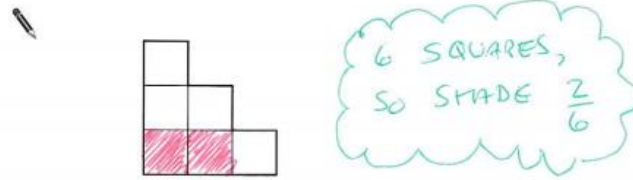
Shade $\frac{1}{5}$ of this shape.



Shade **more** triangles on this shape so that $\frac{1}{3}$ is shaded.

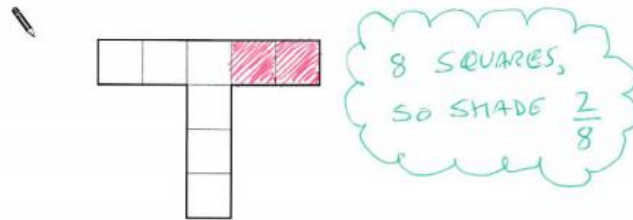


Shade **one third** of this shape.



Now try these:

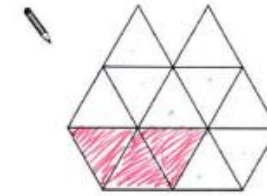
Shade **one quarter** of this shape.



[2 marks]

Shade $\frac{1}{4}$ of this shape.

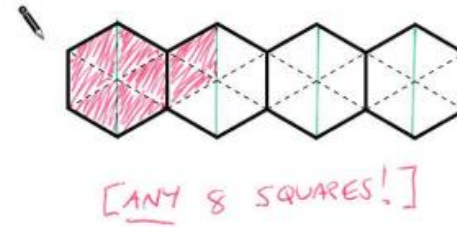
2]



12 TRIANGLES,
SO SHADE $\frac{3}{12}$

This diagram shows four regular hexagons.

Shade in **one third** of the diagram.

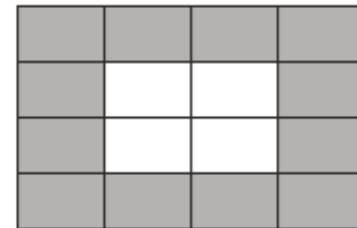
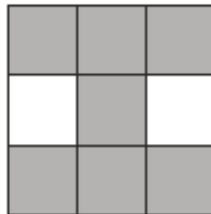
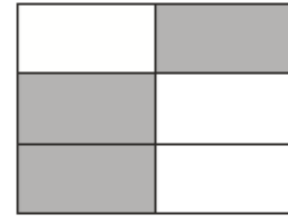
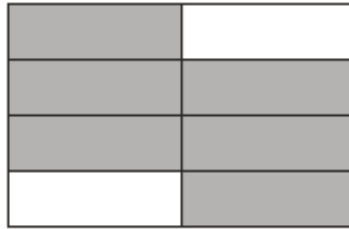


TOTAL OF 24
TRIANGLES,
SO SHADE $\frac{8}{24}$

[1 mark]

Which of these shapes are equivalent to $\frac{3}{4}$?

Try this question:

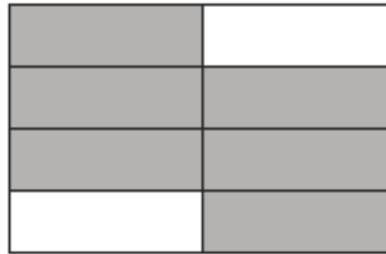


Which of these shapes are equivalent to $\frac{3}{4}$?

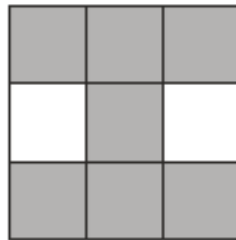
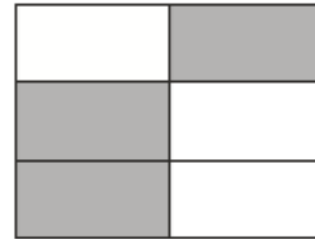
Answers:

You need to write down or work out the fractions first and then see if you can make them into $\frac{3}{4}$.

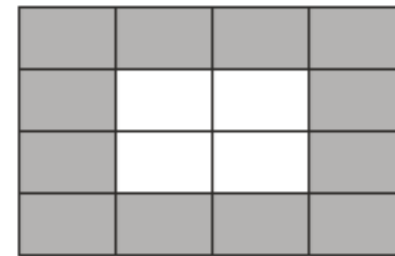
$$\frac{6}{8} = \frac{3}{4}$$



$$\frac{3}{6}$$



$$\frac{7}{9}$$



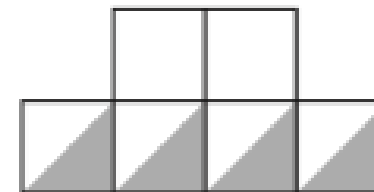
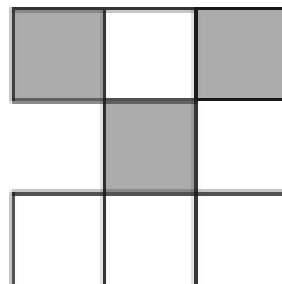
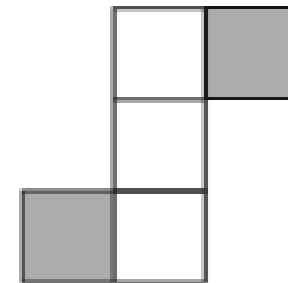
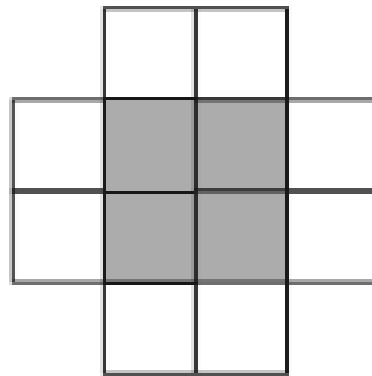
$$\frac{12}{16} = \frac{3}{4}$$



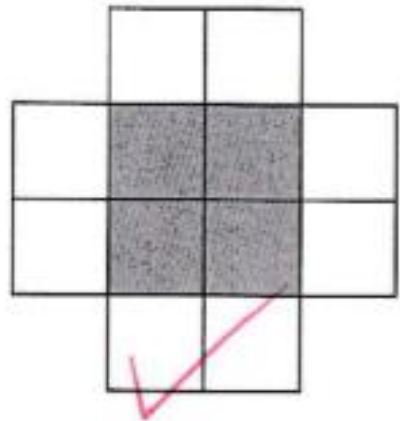
Try this question:

These diagrams are all made of squares.

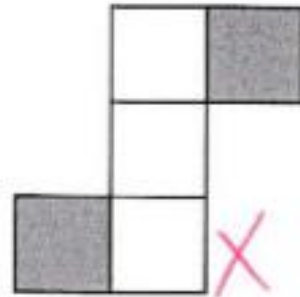
Put a tick (✓) if exactly $\frac{1}{3}$ of it is shaded. Put a cross (✗) if it is not.



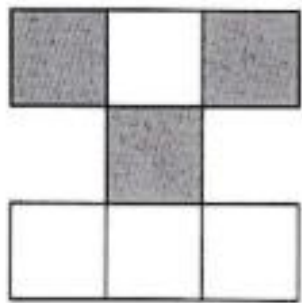
Answers:



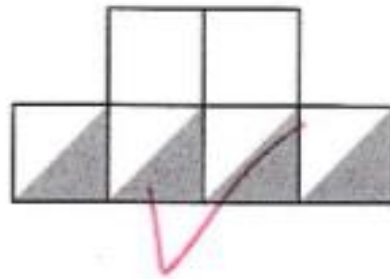
$$\frac{4}{12} = \frac{1}{3}$$



$$\frac{2}{5}$$



$$\frac{3}{7}$$



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

TASK

As this is Year 6 revision, to ensure you are prepared for Year 7, try your best to complete all of the questions!

Home Learning

Once you have finished turn this assignment in on Google Classroom.



Week 8_Maths_Lesson 1

Lesson 1

Monday 22nd June 2020

L.O - I am learning to answer fractions questions.

Try your best to answer as many questions as you can. 😊

Key vocabulary: Fraction, numerator, denominator, simplify, equivalent.

Your answer

1 Here are some shapes made of squares.
A fraction of each shape is shaded.

[2016S] Match each shape to its equivalent fraction.

One has been done for you.



$$\frac{7}{10}$$



$$\frac{3}{5}$$



$$\frac{1}{2}$$



$$\frac{4}{5}$$

School Work

Once you have finished this assignment you will go through the answers as a class.

Self Mark