MONDAY - Fractions Maths 08.06.20

Learning Intention: To.

Steps to Success:

- I know that **quarters** are made by sharing one whole into four equal parts.
- I know that **one quarter can be written** $\frac{1}{4}$.
- I know that **four quarters are equal to one whole.**

Reasoning and problem solving.

Say what you see…

Would you rather have…?

$\frac{1}{2}$

$\frac{1}{4}$

Discussion: (about 5-10 minutes)

The purpose of today's activity is to begin to apply learning from last week.

This can be a practical activity if you have a biscuit, apple etc.

At first look, children often say $\frac{1}{4}$ because they see the '4' and relate that as bigger than 2 so the size of the slice must be larger too. (Equally, I've heard children say, "$\frac{1}{2}$ because I don't like pizza!" thinking that 2 means the slice will be smaller.)

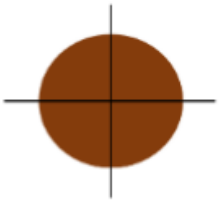
This means that, before we begin looking at quarters, we can reinforce that the denominator shows how many equal parts there are altogether, so the *more* parts the pizza is cut in to, the smaller each part is. If you like pizza, you want the denominator to be as small as possible so you share with fewer people!

Mealtimes are a perfect time to continue these discussions with questions like, "Do you want the big half or the small half?" (You cannot have big and small halves: to be half, each part must be equal!!!)

Activity – verbal reasoning.

Please remember that these questions can be adapted using cakes, lego etc. to make practical activities. (eg. number 3- stack four equal parts of lego, cut a play-dough / pastry circle into four equal quarters.)

1) Four friends are sharing a cake.

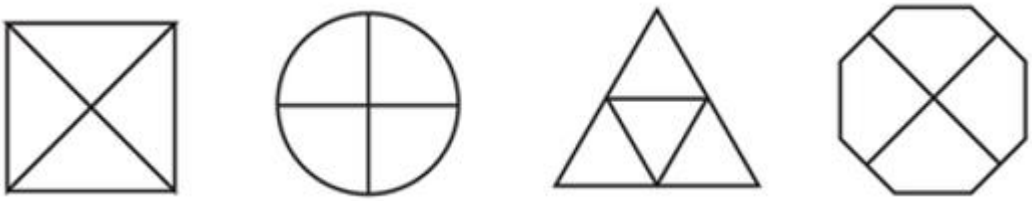


The cake has been shared into _____ equal parts.

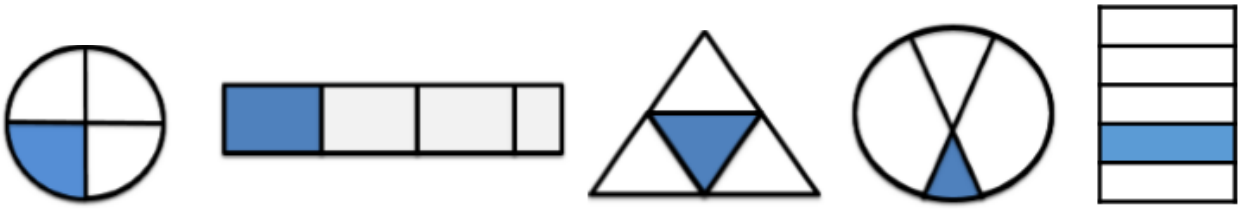
Each part is worth one _____.

It can be written like this: $\frac{\quad}{\quad}$

2) Shade $\frac{1}{4}$ of each shape.



3) Circle the shapes that have one quarter shaded.



Look at the shapes that do not have $\frac{1}{4}$ shaded.

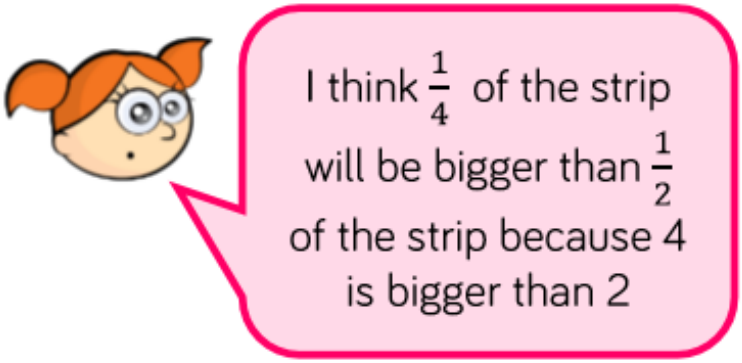
Remember, there MUST be 4 parts, all parts MUST be equal.

Can you draw them so that they are correct?

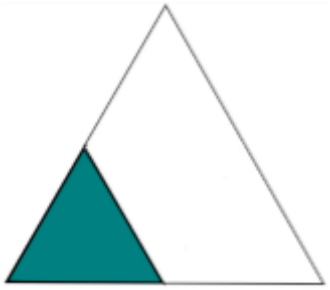
(maybe you can 'make' them: see note above)

Activity – reasoning and problem solving.

4. Alex is folding two identical paper strips.
Use paper strips to prove Alex is incorrect.



5. True or False?



$\frac{1}{4}$ of the shape is shaded.

Explain your answer... this may help: