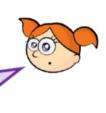
Day I extension questions

Always, Sometimes, Never?

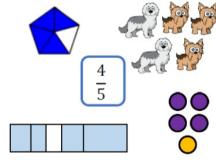
Alex says,

If I split a shape into 4 parts, I have split it into quarters.



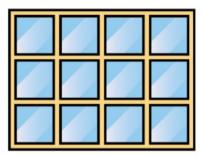
Explain your answer.

 $\frac{2}{5}$. Which representations of $\frac{4}{5}$ are incorrect?



Explain how you know.

3. How many equivalent fractions can you see in this picture?



4. Eva says,



I know that $\frac{3}{4}$ is equivalent to $\frac{3}{8}$ because the numerators are the same.

Is Eva correct? Explain why.

5. Ron has two strips of the same sized paper.

> He folds the strips into different sized fractions.

He shades in three equal parts on one strip and six equal parts on the other strip.

The shaded areas are equal.

What fractions could he have folded his strips into?

6. Rosie says,



To find equivalent fractions, whatever you do to the numerator, you do to the denominator.

Using her method, here are the equivalent fractions Rosie has found for $\frac{4}{3}$

$$\frac{4}{8} = \frac{8}{16}$$
 $\frac{4}{8} = \frac{6}{10}$

$$\frac{4}{8} = \frac{2}{4}$$
 $\frac{4}{8} = \frac{1}{5}$

Are all Rosie's fractions equivalent? Does Rosie's method work? Explain your reasons.

7. Here are some fraction cards. All of the fractions are equivalent.







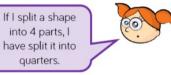
A + B = 16Calculate the value of C.

Day I extension questions ANSWERS

3. How many equivalent fractions can you see in this picture?

L. Always, Sometimes, Never?

Alex says,



Sometimes

If the shape is not split equally, it will not be in quarters.

The image of the

represent $\frac{2}{5}$ or $\frac{3}{5}$

The bar model is

equal parts so this

does not represent

not divided into

dogs could



Children can give a variety of possibilities. Examples:

$$\frac{1}{2} = \frac{6}{12} = \frac{3}{6}$$

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

Eva is not correct. $\frac{3}{4}$ is equivalent to $\frac{6}{8}$ When the numerators are the same, the larger the denominator, the smaller the fraction.

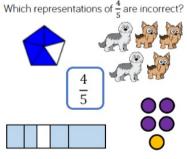
Explain your answer.

4. Eva says,

I know that $\frac{3}{4}$ is equivalent to $\frac{3}{6}$ because the numerators are the same.

Is Eva correct? Explain why.

2.



Explain how you know.

5.

Ron has two strips of the same sized paper.

He folds the strips into different sized fractions.

He shades in three equal parts on one strip and six equal parts on the other

The shaded areas are equal.

What fractions could he have folded his strips into?

Ron could have folded his strips into sixths and twelfths, quarters and eighths or any other fractions where one of the denominators is double the other.

6.

Rosie says,



To find equivalent fractions, whatever you do to the numerator, you do to the denominator

Using her method, here are the equivalent fractions Rosie has found for $\frac{4}{2}$

$$\frac{4}{8} = \frac{8}{16}$$
 $\frac{4}{8} = \frac{6}{10}$

$$\frac{4}{8} = \frac{2}{4}$$
 $\frac{4}{8} =$

Are all Rosie's fractions equivalent? Does Rosie's method work? Explain your reasons.

are incorrect.

Rosie's method doesn't always work. It works when multiplying or dividing both the numerator or denominator but not when adding or subtracting the same thing to both.

Here are some fraction cards. All of the fractions are equivalent.





$$\frac{20}{50}$$

A + B = 16Calculate the value of C. A = 10B = 6C = 15