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 $\frac{4}{8}$

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

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

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

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

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

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

A + B = 16Calculate the value of C.

$$\frac{4}{8} = \frac{1}{5}$$
 and $\frac{4}{8} = \frac{6}{10}$ 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.

$$A = 10$$

$$B = 6$$

$$C = 15$$