

Name: 

EQUIVALENCY ARGUMENT

Find a fraction equivalent to $\frac{3}{8}$. Use diagrams, equations, and mathematical principles to prove that the fractions are equivalent.

Make sure your argument includes a claim, evidence, warrants, reasoning and conclusion.

Claim: The answer is $\frac{6}{16}$

Evidence:

$$\frac{3}{8} = \frac{6}{16} \text{ because}$$

and Reasoning

Warrant: $\frac{6}{16}$ is the right answer because if you times ~~it~~ ^{the fraction} by ~~7~~ (which is $\frac{2}{2}$) you get $\frac{6}{16}$ it is the same because the numerator and the denominator ~~is~~ ^{is} times by ~~2~~ ¹ ($\frac{2}{2}$) so it will be the same value. Any thing ~~is~~ ^{is} times 1 is the same value

Conclusion: $\frac{6}{16}$ is equal to $\frac{3}{8}$ because $\frac{2}{2}$ is equal to 1 and anything times 1 is the same value so...

$$\frac{3}{8} \times \frac{2}{2} = \frac{6}{16}$$

so this why $\frac{3}{8}$ is equivalent to $\frac{6}{16}$

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I believe that there is a fraction equivalent to $\frac{3}{8}$.

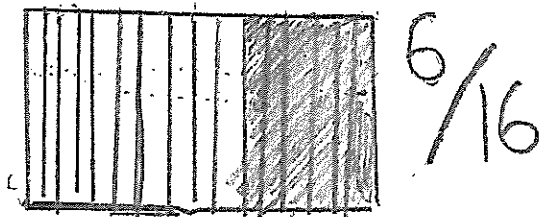
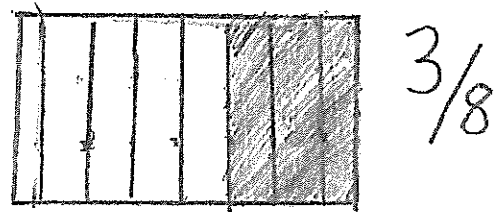
One possible equivalent fraction is $\frac{6}{16}$. This is proven by the equation and diagram below.

Equation

$$\frac{3}{8} \cdot \frac{2}{2} = \frac{6}{16}$$

This works because $\frac{2}{2}$ is equal to 1 or the giant 1. Also you are multiplying the numerator and denominator by the same thing.

Diagram



So as you can see, $\frac{3}{8}$ can easily be change to an equivalent fraction.

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claim - $\frac{6}{16}$ it is just doubled

evidence - $3 \times 2 = 6$
 $8 \times 2 = 16$ not a hole they are both not holes

warrants - $\frac{3}{8} \times \frac{2}{2} = \frac{6}{16}$

conclusion / reasoning - The numbers are just doubled and are not hole.