

Make Your Own Fractions— An Early Algebra Approach to Equivalent Fractions

Name: _____

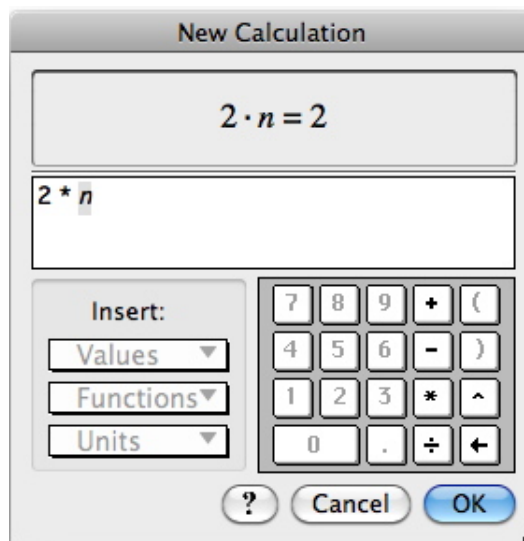
You will construct equivalent fractions.

EXPLORE

1. Open **Make Your Own Fractions--Early Algebra Approach.gsp**. Go to page “Equal to $\frac{1}{2}$.”

Follow these steps to make a fraction that stays equal to $\frac{1}{2}$, using n as the numerator:

- First make your denominator: Choose **Number** | **Calculate**.
- Enter “2 *” in the Calculator. Then, click $n = 1$ in the sketch to enter n into your calculation. Click **OK** to compute $2 * n$.
- Now make your fraction. Choose the **Make Fraction** tool from the Custom Tools menu.
- Click the numerator, n . Click the denominator, $2 * n$. Click to place the vertex of a rectangle. Your fraction for $\frac{1}{2}$ is complete!



- Check that your fraction stays equal to $\frac{1}{2}$. Select $n = 1$. Use the + key to change the value of n . Is the resulting fraction still equal to $\frac{1}{2}$ for any value of n ?

If you make a fraction but don't want to keep it, choose **Edit** | **Undo Make Fraction**.

2. Write your fraction in terms of n below.
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3. Go to page “Equal to $\frac{1}{3}$.” Make a fraction that is equivalent to $\frac{1}{3}$. Use n as the numerator. Write the fraction in terms of n below.

4. Go to page “Equal to $\frac{1}{4}$.” Make a fraction that is equivalent to $\frac{1}{4}$. Use n as the numerator. Write the fraction in terms of n below.

5. Go to page “Equal to $\frac{2}{3}$.” Follow the directions to make a fraction that is equivalent to $\frac{2}{3}$. Write the fraction in terms of n below.

6. Go to page “Equal to $\frac{3}{5}$.” Make a fraction that is equivalent to $\frac{3}{5}$. Write the fraction in terms of n below.

7. Describe how you can make equivalent fractions for any fraction.
