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

Name:

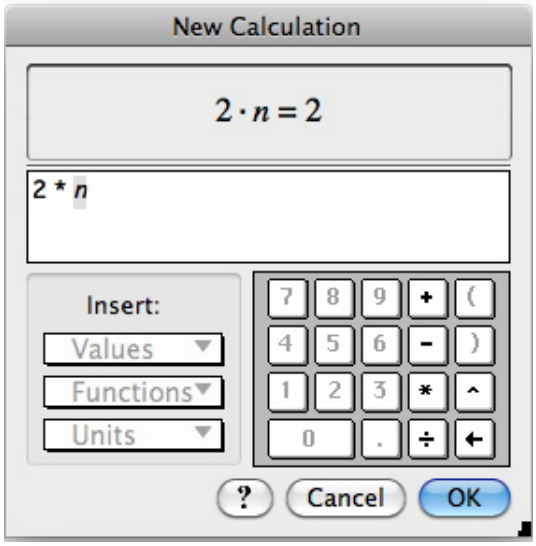
You will construct equivalent fractions.

EXPLORE

1. Open **Make Your Own Fractions--Early Algebra Approach.gsp.** Go to page "Equal to 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 center of a circle. 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 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.

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4. Go to page "Equal to 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.

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

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

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

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