## Name: Fractions on a Ruler

Mark the halfway point on the ruler below. How many inches are in each half?



Divide the ruler below into thirds. How many inches are in each third? \_\_\_\_\_



Divide the ruler below into fourths (quarters). How many inches are in each quarter?

որիս	ada	լոր	րդ	ղող	րիդի	սվոր	սեր	ողու	սկին	սվել	սվեր	սիհ
1	2	<u>(</u>	3	4	5	6	7	8	9	10	11	12

Divide the ruler below into sixths. How many inches are in each sixth?



Divide the ruler below into twelfths. How many inches are in each twelfth?



THESE RULERS ARE FOR CUTTING!



Now, cut each ruler so you have **a whole ruler**, **a** ½ **ruler**, **a** ½ **ruler**, **a** ¼ **ruler**, **a** ¼ **ruler**, **a** % **ruler and a 1/12 ruler**. Glue each piece onto the paper below, lining each up against the margin provided so you have a "staircase" of ruler fractions. Label them.

## Use the rulers you divided and cut to answer the questions.



» How many sixths will make a third?

Think: there were 2 inches in a sixth of the ruler, there are 4 inches in a third of the ruler...

» How many fourths will make a half?

» How many twelfths do you need to make a fourth?

» How many twelfths do you need to make a sixth?

» How many twelfths do you need to make a third?



» Are two-sixths more or less than one-fourth? Prove it.

» Are five-twelfths more or less than two-thirds? Prove it.

» Are 6 inches more or less than four-twelfths of a foot? Prove it.

» Are 8 inches more or less than three-fourths of a foot? Prove it.

» Are 9 inches more or less than five-sixths of a foot? Prove it.



» Compare 1/2 and 3/6. What do you notice? Explain your thinking with a model and fraction notation.

» Compare 8/12 to 2/3. What do you notice? Explain your thinking with a model and fraction notation.

» Can you find 3 different combinations of fractional parts of a foot that are equal to 9 inches? Record your thinking using a model and fraction notation.

» How many different combinations of pieces can you find to show 2/3 of a foot?