

GEARS TINKER SET



Adult supervision required. Not a toy. Educational product.

Warning: To avoid danger of suffocation, keep enclosed bags away from babies and children. Do not use in cribs, beds, carriages, or playpens. Classroom Overview and additional documents available at teachergeek.com/gears

eacherGeek

LAB INGREDIENTS

What parts will you need for your lab?



GEARS TINKER SET

eacherGee







GEARS TINKER SET



MORE DIVIDING



Mesh your 40-tooth gear with a 10-tooth gear so your old marks face down. Do NOT erase your marks.

40-Tooth Gear (old marks on bottom)





Add a **new mark** on the **big** gear next to the old mark on the little gear.

Mark both gears

Turn the small gear around one revolution.











MAKE A PIZZA CUTTER

















Make up some equivalent fractions and write them below. You do not need to use your number line for this question.





use the numerators to find out which fraction is greater?



SAME NUMERATORS

Fill in the blank fractions below. Then show which is greater by writing >, <, or = in the middle blank.

GEARS TINKER SET



The fractions above have the same numerator. How can you use the denominators to find out which fraction is greater?







CHALLENGE QUESTIONS

Use the fraction diagrams to answer the questions below. The diagrams are actual size.

GEARS TINKER SET

40 Tooth Gear





Joey believes that the fraction on the left is greater than the fraction on the right. Why might Joey think this?

Why don't the rules apply to these gears? Explain.