



Imagine that you are going to invent a machine of some kind. It must be something totally new, but can be realistic or fanciful. Design your machine by drawing a detailed diagram of it and labeling each part to tell what it is and why it is there.

Under your diagram, write at least six story problems. Write them in both story and numerical form. All of your problems must be solved by using fractions.

Example: The floor uses $\frac{3}{4}$ of the wood. The ceiling uses $\frac{1}{2}$ of the wood. Which uses more wood, the floor or the ceiling?"

$$\frac{3}{4} = \frac{3}{4}$$

$$\frac{1}{2} = \frac{2}{4}$$

$$\frac{3}{4} > \frac{2}{4}, \text{ so}$$

$$\frac{3}{4} > \frac{1}{2}, \text{ so}$$

Develop your diagram and story problems into an attractive visual presentation for the class to see.