## STUDY LINK <br> 113

Use these two formulas to solve the problems below.


Formula for the Volume of a Cylinder

$$
V=B * h
$$

where $V$ is the volume of the cylinder, $B$ is the area of the cylinder's base, and $h$ is the height of the cylinder.

Formula for the Area of a Circle

$$
A=\pi * r^{2}
$$

where $A$ is the area of the circle and $r$ is the length of the radius of the circle.

1. Find the smallest cylinder in your home. Record its dimensions, and calculate its volume.
radius $=$ $\qquad$

Area of base $=$ $\qquad$ Volume $=$ $\qquad$
2. Find the largest cylinder in your home. Record its dimensions, and calculate its volume.
radius $=$ $\qquad$ height $=$ $\qquad$

Area of base $=$ $\qquad$ Volume $=$ $\qquad$
3. Write a number model to estimate the volume of:
a. Your toaster $\qquad$
b. Your television $\qquad$
4. Is the volume of the largest cylinder more or less than the volume of your toaster? $\qquad$

About how much more or less?
5. Is the volume of the largest cylinder more or less than the volume of your television set? $\qquad$

About how much more or less?

## Practice

6. $6 \frac{1}{3} * \frac{2}{5}=$ $\qquad$ 7. $10 \frac{6}{8} * \frac{1}{2}=$ $\qquad$ 8. $4-2.685=$ $\qquad$
