

# Shower or Bath? Do the Math!

NAME \_\_\_\_\_

## HOW MUCH DOES A FAMILY SPEND TO KEEP CLEAN?

**Tony** Hernandez takes a shower every morning before work.

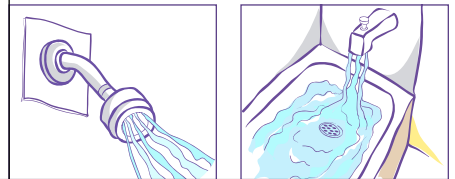
**Maria** Hernandez usually showers every other day.

**Ray** Hernandez, their young son, likes to play in the dirt and needs a bath every night.

1. How much water does the Hernandez family use to keep clean in a year? Show your work.

### Use this information to find the answer.

- A shower lasts 5 minutes and releases 6 gallons of water per minute.
- 66% of the water used in a warm shower or bath needs to be heated.
- A bath uses about 35 gallons of water.
- It costs 1 cent to heat a gallon of water.



### BONUS QUESTIONS

2. How much money does it cost in energy for this family to take one shower? One bath?

3. Can you give the family some suggestions to help them save money and energy?

4. How much are they spending per year to keep clean?