

Estimating and Checking Capacity

NCTM Standards 1, 4, 6, 7, 8, 9, 10

How can you use these containers to measure the amounts given in Problems 1–2?

1 $7\frac{1}{2}$ liters

a 3-liter jug

an 8-liter bucket

a 330-milliliter can

a $1\frac{1}{2}$ -liter bottle

2 1 liter

How can you use these containers to measure the amounts given in Problems 3–4?

3 $1\frac{1}{2}$ quarts

a 1-gallon container

a 12-ounce can ($1\frac{1}{2}$ cups)

a quart container

4 4 ounces ($\frac{1}{2}$ cup)

Say whether the estimated capacity of each object is reasonable. If it is not, give a reasonable estimate.

5



The bucket's capacity is about 5 gallons.

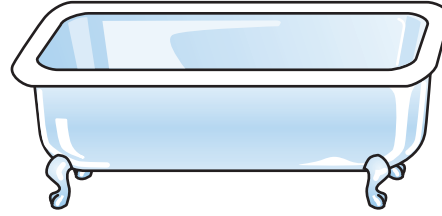
Is this a reasonable estimate?

yes no

If not, what's a reasonable estimate?

about _____ gallons

6



The tub's capacity is about 5 liters.

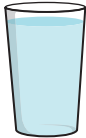
Is this a reasonable estimate?

yes no

If not, what's a reasonable estimate?

about _____ liters

7



The glass's capacity is about 20 ounces.

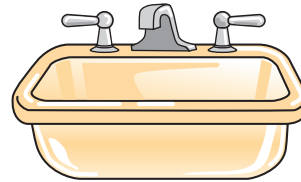
Is this a reasonable estimate?

yes no

If not, what's a reasonable estimate?

about _____ ounces

8



The sink's capacity is about $1\frac{1}{2}$ quarts.

Is this a reasonable estimate?

yes no

If not, what's a reasonable estimate?

about _____ quarts



9 **Challenge** Give an example of a container with a capacity of about 1 pint.
