
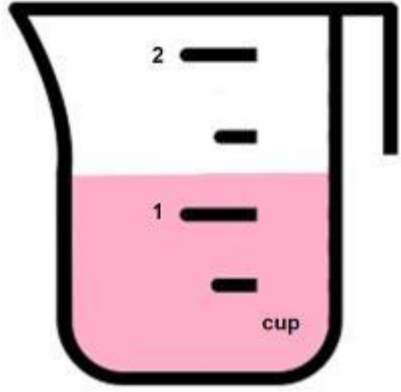


# Measuring capacities, precision & errors

## Grade 5 Measurement Worksheet

<p><b>Cup A</b></p>  <p>How much liquid is there in the cup? _____</p>	<p><b>Cup B</b></p>  <p>How much liquid is there in the cup? _____</p>
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1. Which cup is more precise, A or B? Why?

\_\_\_\_\_

2. Are your measurements exact? Explain.

\_\_\_\_\_

3. William used water for an experiment project and wrote the capacity as  $178 \pm 2$  fluid ounces. Why do you think he wrote the measurement like that?

\_\_\_\_\_

4. What do you think the minimum measurement of the water in the cylinder is?

\_\_\_\_\_

5. What do you think the maximum measurement of the water in the cylinder is?

\_\_\_\_\_

## Answers

### Cup A

How much liquid is there in the cup? **1 1/4 cup**

### Cup B

How much liquid is there in the cup? **Between 1 and 1 1/2 cups**

1. Which cup is more precise, A or B? Why?

**Cup A is more precise because it has smaller divisions.**

2. Are your measurements exact? Explain.

**All physical measurements contain some uncertainty.**

3. William used water for an experiment project and wrote the capacity as  $178 \pm 2$  fluid ounces. Why do you think he wrote the measurement like that?

**William knew that his measurement was not exact, and wanted to show that the capacity was between 176 and 180 fluid ounces.**

4. What do you think the minimum measurement of the water in the cylinder is?

**176 fluid ounces**

5. What do you think the maximum measurement of the water in the cylinder is?

**180 fluid ounces**