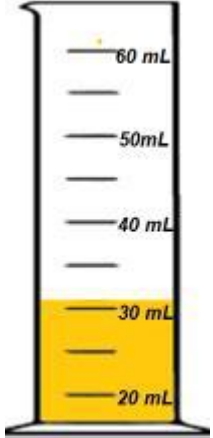
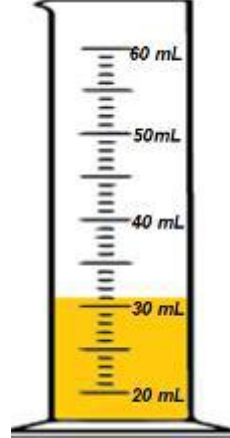


Measuring capacities, precision & errors

Grade 5 Measurement Worksheet

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

2. Are your measurements exact? Explain.

3. A chef prepared a vinegar in a cylinder for her recipe. He wrote the capacity as 24 ± 5 mL. Why do you think he wrote the measurement like that?

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

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

Answers

Cylinder A How much liquid is there in the cylinder? Between 30 and 35mL	Cylinder B How much liquid is there in the cylinder? 31 mL
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1. Which cylinder is more precise, A or B? Why?

Cylinder B is more precise because it has smaller divisions.

2. Are your measurements exact? Explain.

All physical measurements contain some uncertainty.

3. A chef prepared a vinegar in a cylinder for her recipe. He wrote the capacity as 24 ± 5 mL. Why do you think he wrote the measurement like that?

The chef knew that his measurement was not exact, and wanted to show that the capacity was between 19 and 29 mL.

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

19 mL

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

29 mL