

Name: _____

What's the Matter With That Cup?

RESTAURANT CUP	CIRCUMFERENCE of the rim of the cup (cm)	HEIGHT (cm)	VOLUME (mL)
Burger King			
McDonald's			
Sonic			
Kentucky Fried Chicken			
Wendy's			
Church's			
Popeye's			
Chic-Fil-A			

	COMMENDABLE	ACCEPTABLE	NEEDS ASSISTANCE
Measurements	*Completes all measurements for circumference, height, and volume on the chart.	*Most measurements for circumference, height, and volume are completed.	*Measurements are incomplete and missing data in several places.
	*Records data using appropriate customary measurements (cm and mL).	*Data is recorded, but with a few mistakes.	*Data is recorded inaccurately, using incorrect measurement.
	*Accurately measures cups' circumference, height, and volume using cm and mL.	*Measurements of circumference, height, and volume are mostly accurate.	*Measurements are incorrect.
Compare	*Accurately compares measurements by ranking each cup from largest to smallest volume.	*Ranking each cup from largest to smallest volume is mostly accurate.	*Ranking each cup from largest to smallest is incorrect.
	*Identifies cup with the largest volume.	*	*Could not or did not identify cup with the largest volume.
	*Identifies realistic relationships between measurements.	*Relationships are written and show some idea of relationships between measurements.	*No relationships are noted, or the relationships are incorrect/missing.

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DISCUSSION...WHAT DO YOU THINK?

Which restaurant provided the cup with the largest volume? _____

Rank the cups from largest to smallest: **1.** _____ **2.** _____

3. _____ 4. _____ 5. _____

6. _____ 7. _____ 8. _____

Look at your data and talk with your partners about the following questions:

Which of your cups have the same circumference? _____

Volume? _____

Height? _____

Do any of your cups share two or more measurements? Which ones? _____

Examine the measurements of the circumference and height of each cup. Would either of these measurements give you a clue about how much volume the cup would have? Explain your thinking on the back of this paper.

Volumizer

**Sir
Cumference**

The Ruler