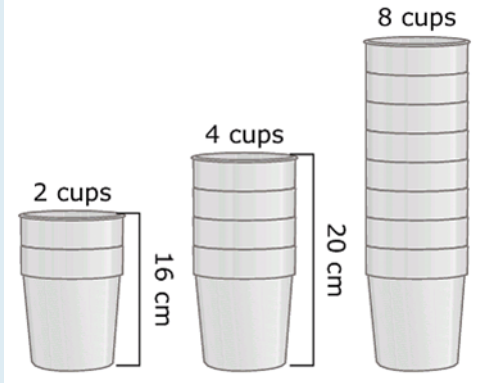


Focus Standards and Claim	Claim 2 7.EE.B.3
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Stimulus	<p><b>Stacks of Cups</b></p> <p>Your science classroom uses cups for many experiments. Your teacher ordered lots of cups from a catalog. The catalog is not very good. It has the following picture, but no other useful information.</p>  <p>Your teacher wants you to help her get organized for when the cups arrive next week. Using only the information shown in the picture, she asks you to figure out some other specific measurements.</p>
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Item Prompt	How tall, in cm, is 1 cup? Explain how you determined the height of 1 cup.
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## Sample Responses

Sample Response A	14
Sample Response B	It is 14 cm because every cup is 2cm.

Sample Response C	<p>2 cups are 16cm and 4 are 20cm. Two cups only increased it by 4cm so since they only add the lip each lip is 2cm. If you subtract 2cm from 16cm you get 14cm.</p> <p>One cup is 14cm tall.</p>
Sample Response D	<p>2 cups = 16cm <math>16 / 2 = 8\text{cm}</math> The height of one cup is 8cm. I divide 16 by 2 and I got 8 cm.</p>
Sample Response E	<p>The difference between 16cm (2c) and 20 cm (4c) was 4cm. <math>4\text{cm} / 2 = 2</math>. 2 cm = the lip of the cup <math>x = 16 - 2</math> <math>x = 14</math> 1 cup is 14 cm</p>
Sample Response F	<p>I think one cup is about 14cm. I determined this because the lip of the cup seems to be about 2cm so that would leave you with 14cm.</p>
Sample Response G	<p><math>16\text{cm} - 2\text{cm} = 14\text{cm}</math> I used the height of the 2 cups (16cm) and subtracted the height of one lip of a cup.</p>
Sample Response H	<p>1 cup is 14 cm. I figured this out by looking at the pattern of 4 cups, so with two cups it is 16 cm and to figure out the size of one cup you have to subtract the lip of the second cup with the stack of two. I figured out how big the lip is by using the 4 cups stacked height and subtracted it by the 2 cups height and got 4 which then there are 2 lips so <math>1/2</math> of 4 is 2 cm which is my height of lip on a cup.</p>
Sample Response I	<p>I determined it as 4 since 4 equally goes into most the figures shown.</p>

Sample  
Response J

1 cup is 8 cm. I know this by adding eight plus eight which equals 16cm.  
16cm is 2 cups and 8cm is 1 cup.