

Name: \_\_\_\_\_  
Mathematics Period 3

Date: 5/4/15  
Ms. Wilson

**Ratios  
Classwork**

Express ratios 1-4 in simplest form. Be sure that the units in each ratio are alike before simplifying.

1.) 3 cm to 20 mm

2.) 6 in. to 2 ft.

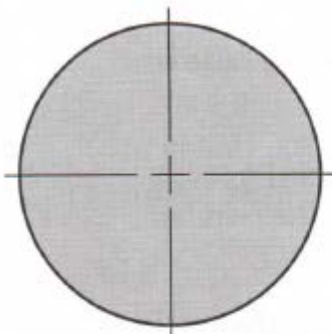
3.) 4 ft. to 6 in.

4.) 2 yd. to 3 in.

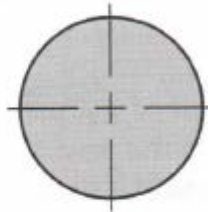
5.) In a drawing, a scale of  $1'' = 1'0''$  is used. What is the ratio of the dimensions of the drawing to the dimensions of the actual object?

6.) It takes an experience CAD drafter 16 hours to complete a set of working drawings. Another CAD drafter takes 48 hours to complete a similar set of working drawings. What is the ratio of the first drafter's time to the second drafter's time?

7.) Calculate the ratio of the circumference of the smaller circle to the circumference of the larger circle. Express the answer in simplest form.



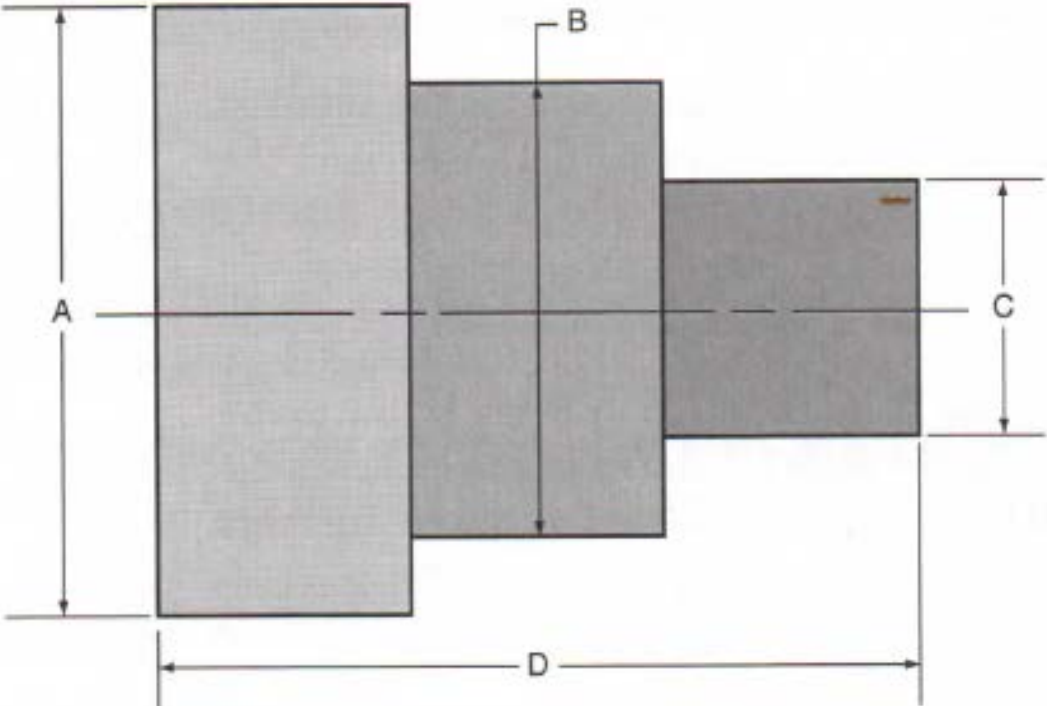
Circumference = 78.540"



Circumference = 47.124"

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8.) Measure dimensions A, B, C, and D on this CAD drawing to the nearest 8<sup>th</sup> or 16<sup>th</sup> inch. Use the scale 1:3 and calculate the actual lengths in inches of dimensions A, B, C, and D and express the answers as mixed numbers in simplest form.



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