**Unit 4: Geometry** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
**Mid-Unit REVIEW : Angles, Triangles and Circles** Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

1. Explain how to calculate the circumference of a circle?

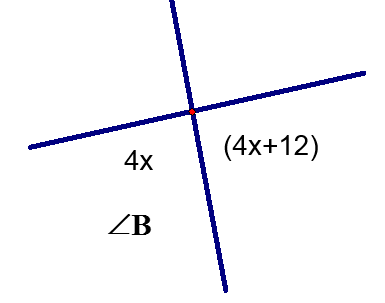
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2. Solve for the given variable. 3. Solve for the given variable.

5m 3y + 11   
 10°  
 40° 15°   
   
   
   
   
  
 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Directions: Use the figure to solve problems 4 and 5.

4. Solve for x. 5. What is the measurement of Q?



5h

5h - 13

Q

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Directions: Given the lengths below, can these form triangles?

6. 10 cm, 7 cm, 6 cm \_\_\_\_\_\_\_\_\_\_ Work:

7. 5 cm, 12 cm, 5 cm \_\_\_\_\_\_\_\_\_\_ Work:

Directions: Given the measurements below find the missing angle in the triangle, then classify the triangle by its angles and its sides.

Angle Measure Classify the Triangle

38º and 52º 8. \_\_\_\_\_\_\_\_\_\_ 9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

48º and 66º 10. \_\_\_\_\_\_\_\_\_\_ 11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. In the triangle shown, the measure of  is 29 degrees, the measure of is 116 degrees, and the measure of is 40 degrees.

(HINT: Label all the angle measures as you find them.)



What is the measure of**?** \_\_\_\_\_\_\_\_\_\_\_

1. Find the area of the triangle below. **Area =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17 in

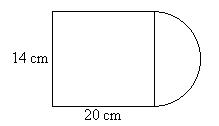


9 in

16 in

1. Find the area of the given figure (round to the nearest whole number): **Area =**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Work:

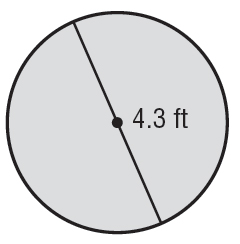


10 ft

13 ft

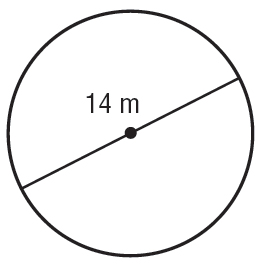
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| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

15. Calculate the circumference of the circle. 16. Calculate the area of the circle.



14 in

7 in



C=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: Name the parts of a circle based on the labeled on the circle

17. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

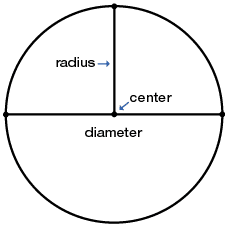
18. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

20. Distance around the circle

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17.



19.

18.

20.