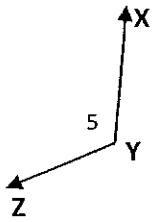


2D Geometry Test Review

Name: _____

7th Grade Math

1)

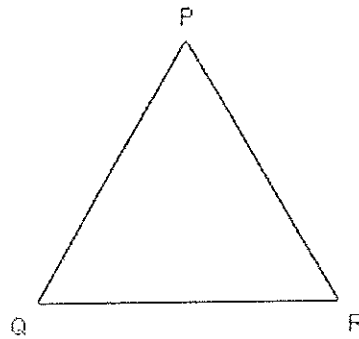


Name the vertex and sides of the angle shown above.

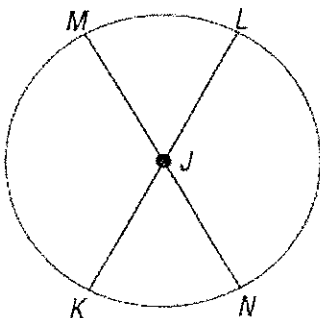
2) Name the angle shown in #1 four ways

3) Draw a triangle that has two equal sides and name it.

4) Label all the sides and angles of the triangle below.



5)



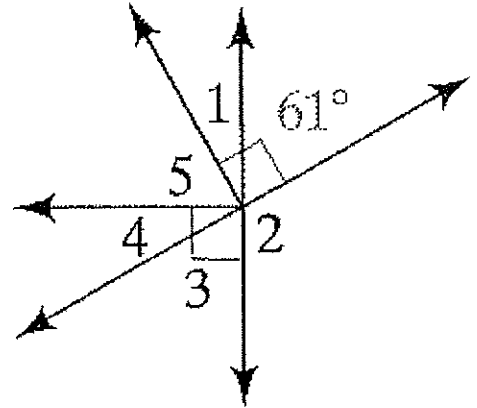
Look at the circle to the left and name...
the circle:

two diameters:

four radii:

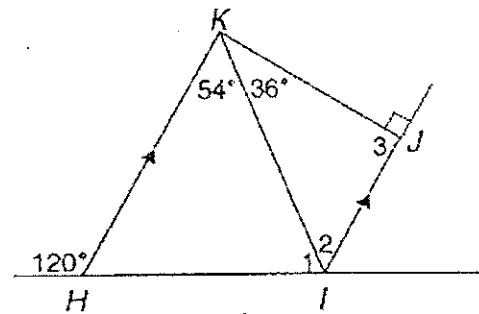
6) Use the picture to the right to answer the following (list all that apply):

- a) $\angle 3$ and $\angle 4$ are what type of angles?
- b) $\angle 2$ and the angle with the $m\angle 61^\circ$ are what type of angles?
- c) $\angle 2$ and $\angle 3$ are what type of angles?
- d) $\angle 5$ and $\angle 4$ are what type of angles?



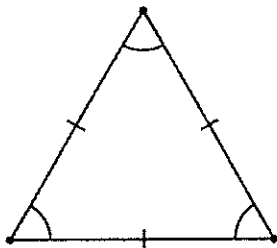
7) Find the measure to the following angles

- a) $\angle 1$
- b) $\angle 2$
- c) $\angle 3$

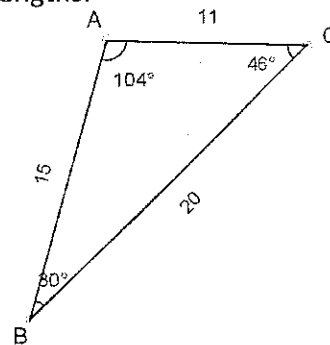


8) Classify the following triangles by their angles and sides lengths.

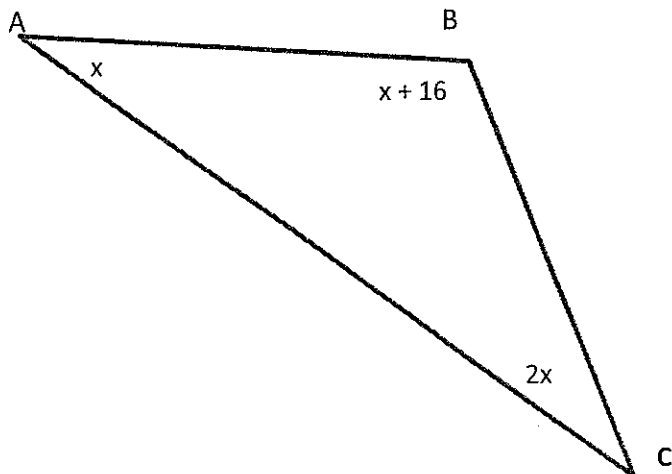
a)



b)



9) Find "x" and the missing angles.

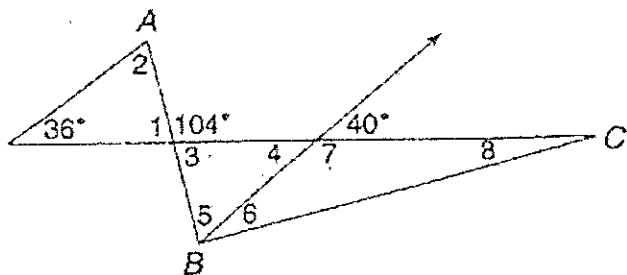


$m\angle A =$ _____

$m\angle B =$ _____

$m\angle C =$ _____

10) Find the measures of the following angles:

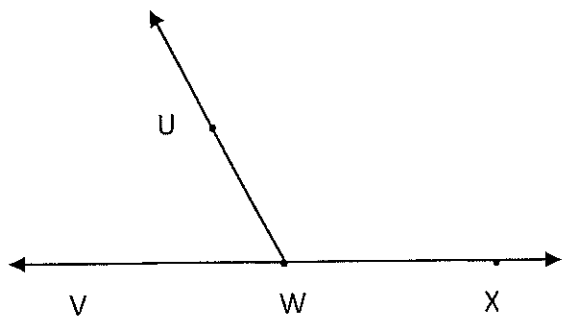


$\angle ABC$ is a right angle

$m\angle 1 =$ _____ $m\angle 2 =$ _____ $m\angle 3 =$ _____ $m\angle 4 =$ _____

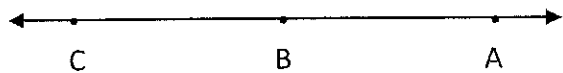
$m\angle 5 =$ _____ $m\angle 6 =$ _____ $m\angle 7 =$ _____ $m\angle 8 =$ _____

11)



Find $m\angle UWV$ using your protractor

12)



Draw $\angle DBC = 135^\circ$

13) Use your protractor and ruler to draw a triangle with an angle of 45° , a side of 6 cm, and another side of 4 cm.

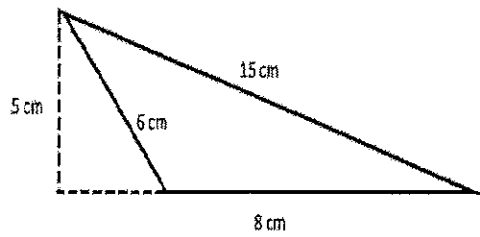
14) Can the following sides be lengths to a triangle? Show your work to explain

a) 12, 4, 17

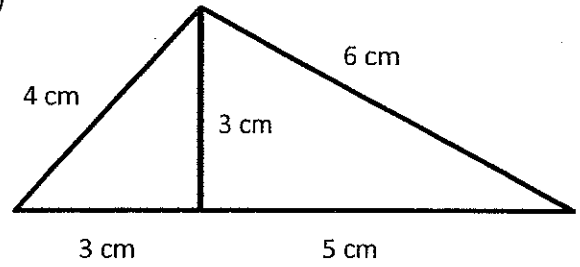
b) 3, 4, 7

15) Find the area and perimeter of the following triangles.

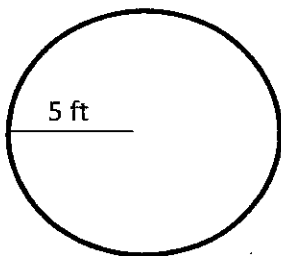
a)



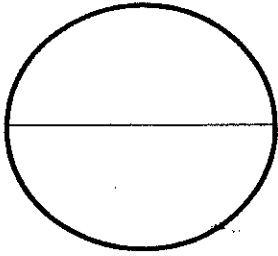
b)



16) Find the area and circumference of the circle.

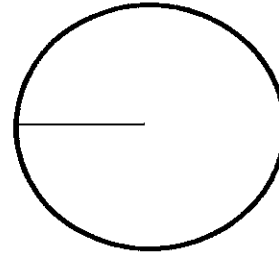


17) Find the diameter of the circle



$$\text{Area} = 28.26 \text{ cm}^2$$

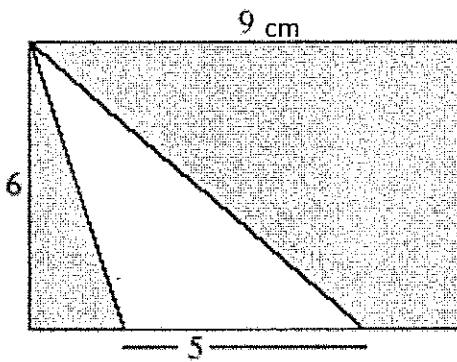
18) Find the radius of the circle



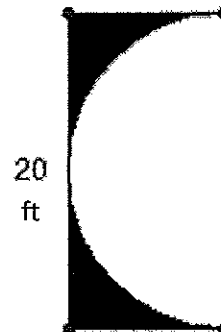
$$\text{Circumference} = 81.64 \text{ m}$$

For the following problems, find the area of the shaded region.

19)



20)



Answers:

- 1) $\overline{Y}, \overline{YZ}, \overline{YX}$
- 2) $\angle Y, \angle 5, \angle XYZ, \angle ZYX$
- 3) -
- 4) $\overline{PR}, \overline{RQ}, \overline{QP}, \angle P, \angle R, \angle Q$
- 5) Circle J, \overline{LK} & \overline{MN} , \overline{JN} \overline{JK} \overline{JL} \overline{JM}
- 6) a) comp/adj b) supp/adj c) supp/adj d) comp/adj
- 7) a) 66 b) 54 c) 90
- 8) a) equilateral/acute b) scalene/obtuse
- 9) $x=41, m\angle A=41, m\angle B=57, m\angle C=82$
- 10) 76, 68, 76, 40, 64, 26, 140, 14
- 11) 62
- 12) -
- 13) -
- 14) a) no b) no
- 15) a) $A=20 \text{ cm}^2, P=29 \text{ cm}$ b) $A=12 \text{ cm}^2, P=18 \text{ cm}$
- 16) $A=78.5 \text{ ft}^2, C=31.4 \text{ ft}$
- 17) 6 cm
- 18) 13 m
- 19) $54 - 15 = 39 \text{ cm}^2$
- 20) $200 - 157 = 43 \text{ ft}^2$

