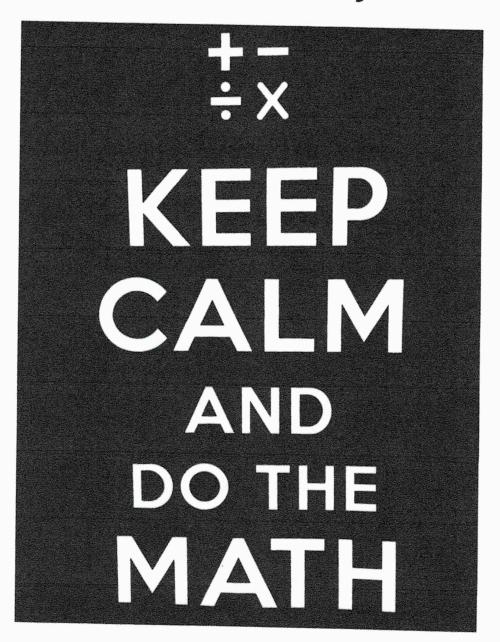
NOMBRE: \_\_\_\_

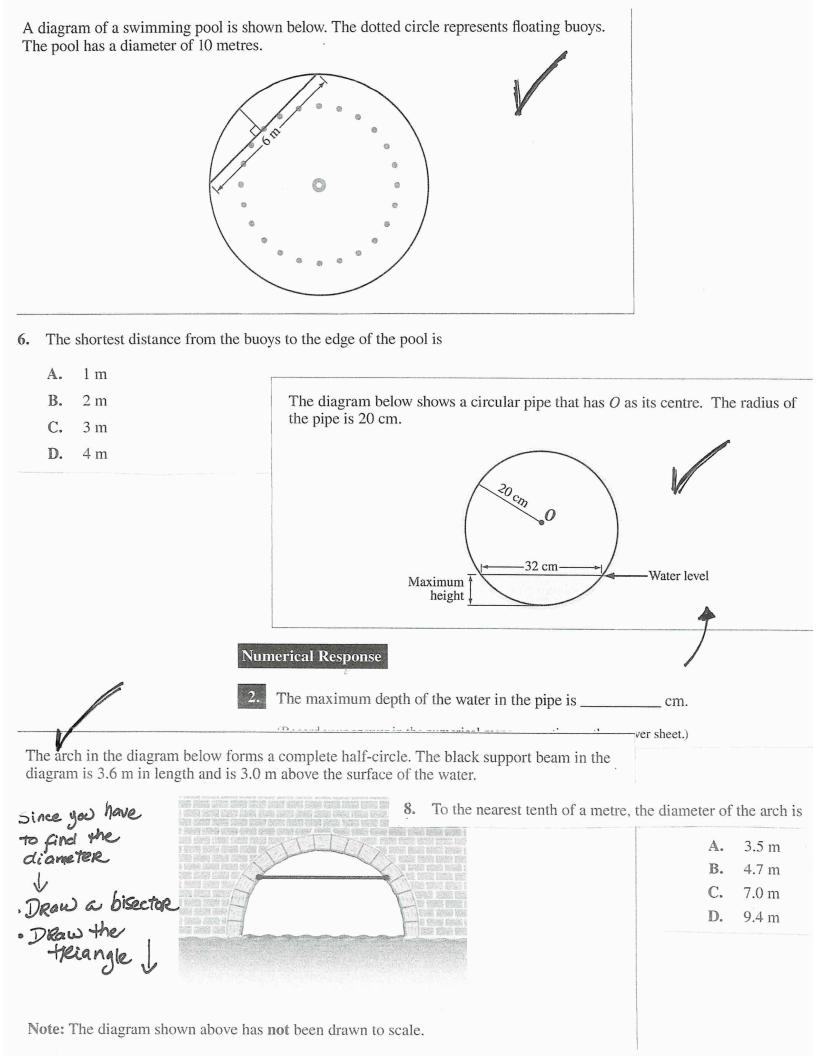
## P.A.T Prep Circle Geometry



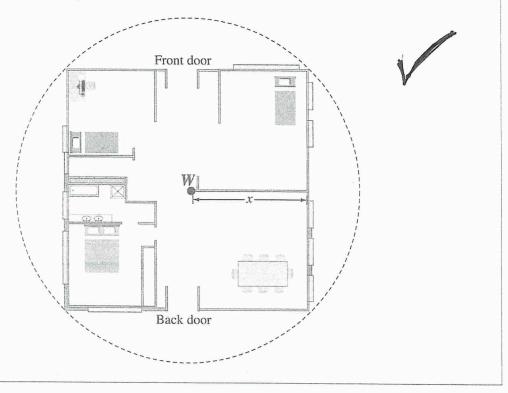
St. Brendan School Mr. Martínez

· EVERY P.A.T. CRCE Geometrey
· EVERY P.A.T.  JUSCEIBED / DENTROL anak, DEORLOW
JUSCRIBED/CENTRAL angle PROBLEM  V PROBLEM INVOLVING A CHORD
JUSCRIBED / CENTRAL angle Must come from same minor arch.
· Remember: 360° 1= 180°
Also: Isosceles 2 equal 2 equal 2 equal 390° Triangles > Sides > angles
EQuilateral 3 equal 3 equal 180° Treangles Sides angles
otrategy tip:  The Radius is  always involved,  and you most likely  will have an  Jsosceles triangle  by 2-radii  Numerical Rossours
real response
Point <i>O</i> in the diagram below represents the centre of the circle. umerical-response section on the answer sheet.)
27. The value of angle x is  A. 47°  B. 62°  C. 75°

**D.** 90°



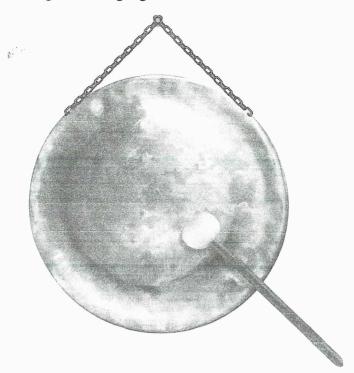
The letter W is in the centre of the diagram below and represents the location of a wireless router for Internet access in a square house. The router provides access to the area represented by the dotted circle in the diagram below. This circular area has a diameter of 20 m.



- 11. To the nearest tenth of a metre, the distance, x, from the router, W, to the middle of one outside wall is
  - A. 7.1 m
  - B. 8.9 m
  - C. 10.0 m
  - D. 14.1 m

The gong shown below is 30 cm in diameter and hangs by a chain from a nail.

The total length of the chain is 18 cm. The lengths of chain on each side of the nail are equal to each other and form a tangent to the gong.

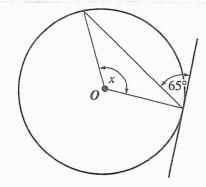


- A. 2.3 cm
- B. 2.5 cm
- C. 12.0 cm
- D. 17.5 cm
- 10. How far above the top of the gong is the nail, to the nearest tenth of a centimetre?

CHORDS W . Safe bet: a Circle you'll get one PROBLEM involving 50, follow CHORDS this: 1.) Determine the Radius 2) PROW a Radius from center to edge of CHORD. this will be your hypotenuse! 3) ask yourself: which 2 measurements do I have? · What you need to find has to do work the one length you do not have!

26. If the line shown as x is a tangent to the circle, then the measure of angle x is

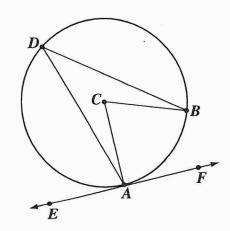
- A. 110°
- **B.** 115°
- C. 130°
- **D.** 155°



Point 06
Tengency
always
90°

**Note:** The diagram shown above has **not** been drawn to scale. The letter *O* represents the centre of the circle.





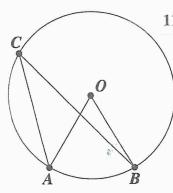
In this diagram, point C represents the centre of the circle.

2. Which of the following rows of terms correctly labels the parts of the diagram above?

Row	∠ADB	$\overline{AD}$	∠ACB	ÉF
A.	Inscribed angle	Tangent line	Central angle	Chord
В.	Inscribed angle	Chord	Central angle	Tangent line
C.	Central angle	Tangent line	Inscribed angle	Chord
D.	Central angle	Chord	Inscribed angle	Tangent line

The letter O in the diagram below represents the centre of the circle.

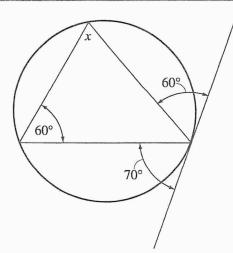




- 11. If the sum of  $\angle AOB$  and  $\angle ACB$  is 75°, then  $\angle ACB$  equals
  - **A.** 30°
  - B. 25°
  - C. 20°
  - **D.** 15°

Note: The diagram shown above has not been drawn to scale.





- 38. The measure of x in the diagram above is
  - A. 50°
  - **B.** 60°
  - C. 65°
  - **D.** 70°