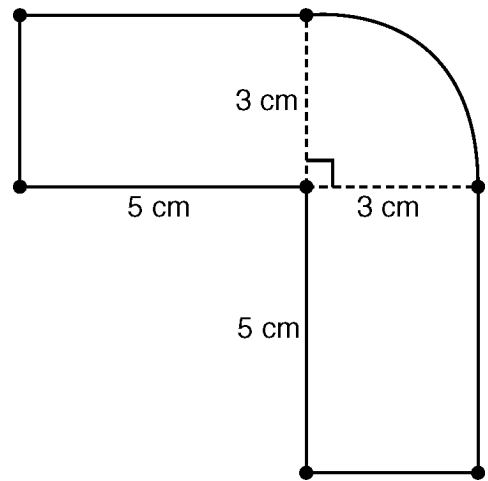


Name: _____
 CC Geometry

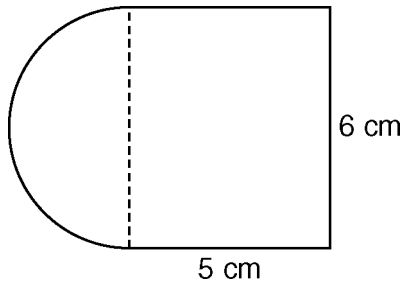
Area and Circumference of Circles

- 1) Which one of the following figures has the *largest* area?
- A) an equilateral triangle whose side measures 6
 B) a circle whose diameter measures 6
 C) a square whose side measures 6
 D) a triangle whose base and height each measure 6
- 2) Find the area of a circle whose radius is 17.
- A) 249π C) 72.25π
 B) 289π D) 68.05π
- 3) Find the area of a circle with a diameter of 10 inches. [Use $\pi = 3.14$]
- A) 157 in.^2 C) 78.5 in.^2
 B) 314 in.^2 D) 56.5 in.^2
- 4) The circumference of a circle is 18π . What is the radius of the circle?
- 5) If the area of a circle is $40\pi \text{ mm}^2$, what is the radius of the circle to the nearest tenth?
- 6) The figure shown below is composed of two rectangles and a quarter circle.



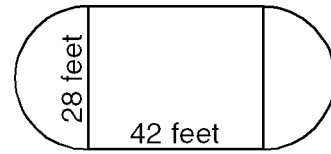
What is the area of this figure, to the nearest square centimeter?

- 7) A figure is made up of a rectangle and a semicircle as shown in the diagram below.



What is the area of the figure, to the nearest tenth of a square centimeter?

- 8) A training ring for horses is an oval formed from a rectangle with two semicircles on either end. Rounded to the nearest foot, how many feet of fencing is required to surround the entire ring with a fence?



1) C 2) B 3) C

4) 9

5) 6.3 mm

6) 37

7) 44.1

8) 172 feet