Before we begin, are there any questions from last day's work?

## Today's Learning Goal(s):

By the end of the class, I will be able to:

a) calculate the perimeter and area of any 2-dimensional figure.

Today's work: 6.2.1 6cd, 8abd(ef), 9,10,(11)

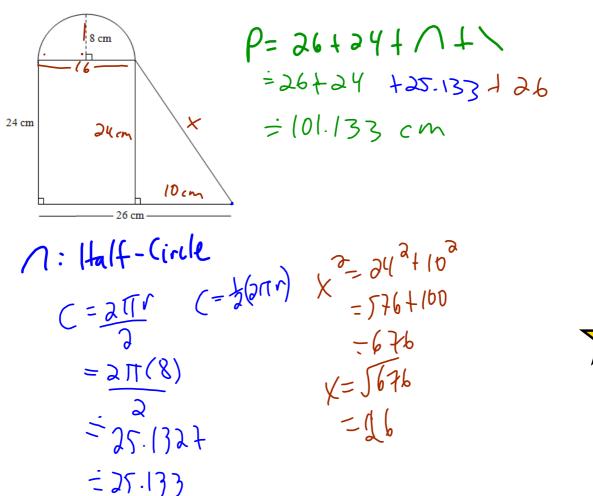
6.2.2 (Formula Sheet)

## 6.2.1 Area of 2D Geometric Figures (including composite figures)

Date: May 17/18

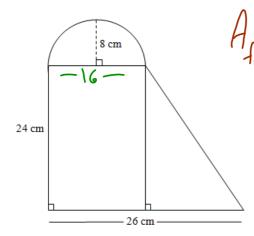
Ex. 1 a) Calculate the perimeter of the figure.

b) Calculate the area of the figure. (use the same diagram on the next slide)





b) Calculate the area of the figure.



$$A = \frac{1}{2}(\pi r^{2})$$

$$= \frac{1}{2}\pi(8)^{3}$$

$$= (0.5369)$$

$$= (0.531)$$

$$A_{\text{figure}} = \frac{1}{2} \text{ (ircle + Trapezoid)}$$

$$= 100.531 + 504$$

$$= 604.531 \text{ cm}^2$$

$$A_{Trap} = \frac{1}{2}h(a+b)$$
=  $\frac{1}{2}(a+1)(1b+2b)$ 
=  $\frac{1}{2}(a+1)(4a)$ 
=  $\frac{1}{2}(a+1)(4a)$ 

604.531 cm<sup>2</sup>

