

Hint: Use () with the calculator.

$$\frac{3}{5\pi} = 3 / (5\pi)$$

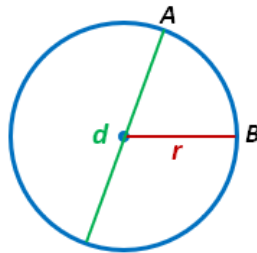
Simplifying with π and Calculator Skills

Use the π button

$x = \frac{1}{2}(8\pi) + 2(3)^2$	$x = \frac{14}{4\pi}$	$x = \frac{3}{4}(12\pi) + \frac{2}{5}(10\pi)$	$x = \frac{10}{12\pi} + \sqrt{28}$
Exact Answer:	Exact Answer:	Exact Answer:	Exact Answer:
$x =$	$x =$	$x =$	$x =$
Decimal Approximation:	Decimal Approximation:	Decimal Approximation:	Decimal Approximation:
$x \approx$	$x \approx$	$x \approx$	$x \approx$

Core Concept

The **circumference** of a circle is the _____ of the _____ all the around the circle.



To find the **length** of AB use a portion of the _____.

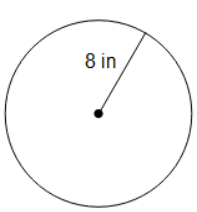
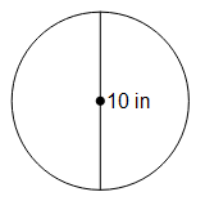
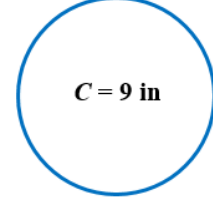
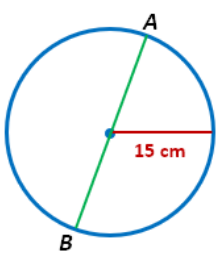
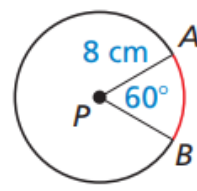
Formula:

$$\text{length of } AB = \frac{mAB}{360^\circ} (\quad)$$

Formula:

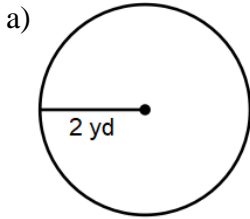
$$C = \text{_____} \text{ or } C = \text{_____}$$

Give the simplified form of the exact answer in terms of π and the decimal approximation. (to the nearest hundredth)

<p>1) Find the circumference.</p>  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $C =$ $C \approx$ </div>	<p>2) Find the circumference.</p>  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $C =$ $C \approx$ </div>	<p>3) Find the radius.</p>  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $r =$ $r \approx$ </div>
<p>4) Find the measure and length of AB</p>  $\text{length } AB = \frac{\quad}{360^\circ} (\quad)$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $\text{length } AB =$ $mAB = \text{_____}^\circ$ $\text{length } AB \approx$ </div>	<p>6) Find the measure and length of AB</p>  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $\text{length } AB =$ $mAB = \text{_____}^\circ$ $\text{length } AB \approx$ </div>	

Ch. 11: HW #1 Give all decimal approximations to the nearest hundredth.

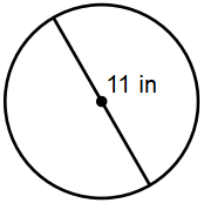
1) Find the circumference of each.



$C =$

$C \approx$

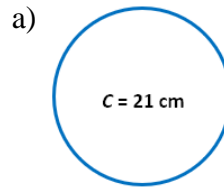
b)



$C =$

$C \approx$

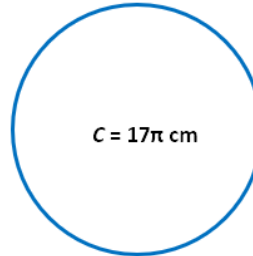
2) Find the radius:



$r =$

$r \approx$

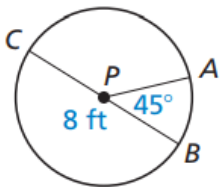
b)



$r =$

$r =$

3) Find the measure and *length* of AB

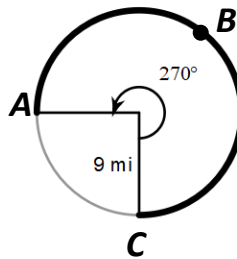


$\text{length } AB =$

$m\widehat{AB} = \underline{\hspace{2cm}}^\circ$

$\text{length } AB \approx$

4) Find the *length* of ABC



$\text{length } ABC =$

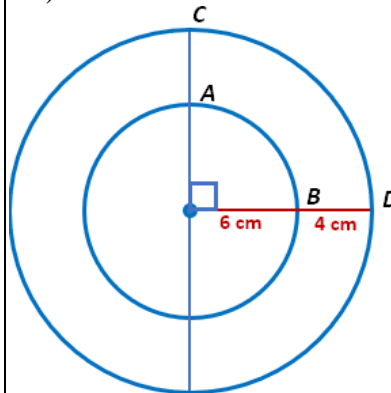
$\text{length } ABC \approx$

5) Find the exact simplified form and the decimal approximations for each.

a) $x = \frac{2}{3}(6\pi) + \pi(3)^2$

b) $x = 4\left(\frac{3\pi}{8}\right) + 5\left(\frac{7\pi}{10}\right)$

6) Find the indicated values.



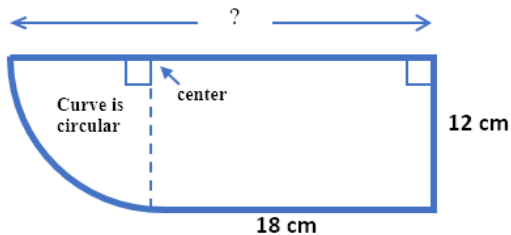
$m\widehat{AB} = \underline{\hspace{2cm}}^\circ$

$\text{length } AB =$

$m\widehat{CD} = \underline{\hspace{2cm}}^\circ$

$\text{length } CD =$

7) Find the perimeter.



8) Find the perimeter.

