

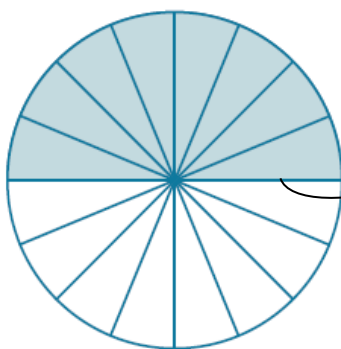
Name _____

Date _____

Lesson 17: The Area of a Circle

Exit Ticket

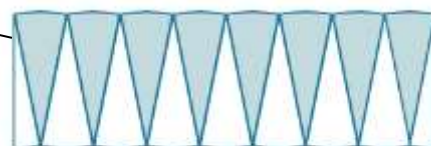
Complete each statement using the words or algebraic expressions listed in the word bank below.



1. The length of the _____ of the rectangular region approximates the length of the

_____ of the circle.

2. The _____ of the rectangle approximates the length as one-half of the circumference of the circle.



3. The circumference of the circle is _____.

4. The _____ of the _____ is $2r$.

5. The ratio of the circumference to the diameter is _____.

6. Area (circle) = Area of (_____) = $\frac{1}{2} \cdot \text{circumference} \cdot r = \frac{1}{2}(2\pi r) \cdot r = \pi \cdot r \cdot r =$ _____.

Word bank

Radius

Height

Base

$2\pi r$

Diameter

Circle

Rectangle

πr^2

π