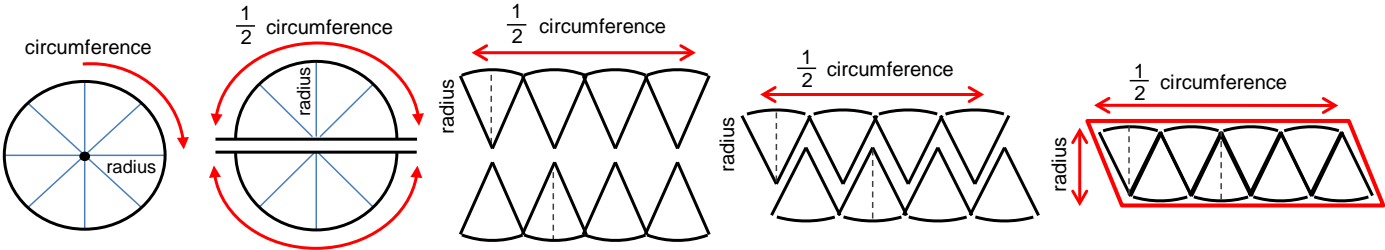


CIRCLES - AREA

ANSWERS

Area of a circle = $\pi \times \text{radius} \times \text{radius}$

TO FIND THE AREA FORMULA OF A CIRCLE, SEPARATE IT AND THEN PUT IT BACK TOGETHER TO FORM A PARALLELOGRAM. THIS WILL GIVE YOU A BASE ($\frac{1}{2}$ circumference) AND HEIGHT (radius), WHICH YOU CAN MULTIPLY TO FIND THE AREA.



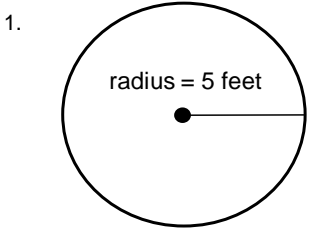
Now your turn. Use the information above and the vocabulary below to fill in the blanks.

Circumference π (Pi) 3.14 Area of a parallelogram Area of a circle

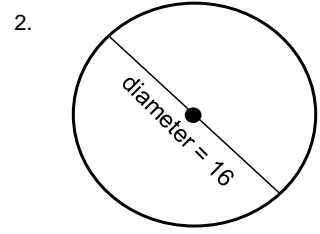
1. Area of a parallelogram = base x height
2. π (Pi) = 3.141592653589..., which is approximately 3.14
3. Area of a circle = $\frac{1}{2}$ x circumference x radius
4. Circumference = $2 \times \pi \times \text{radius}$, which is the same as $2 \pi r$
5. Area of a circle = $\frac{1}{2} \times 2 \times \pi \times \text{radius} \times \text{radius}$
6. Area of a circle = πr^2

$$A = \pi r^2$$

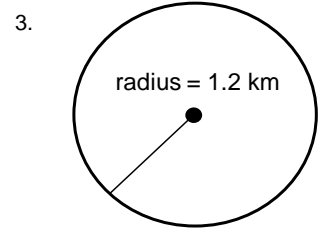
Find the area of each circle. Use $\pi = 3.14$



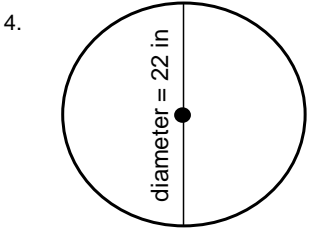
Area = 78.5



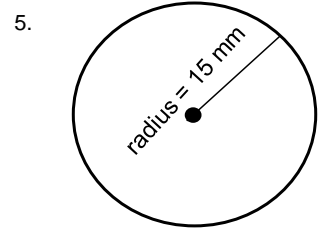
Area = 200.96



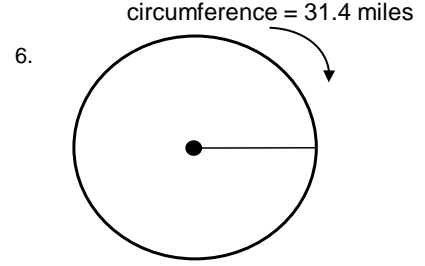
Area = 4.5216



Area = 379.94



Area = 706.5



Area = 78.5