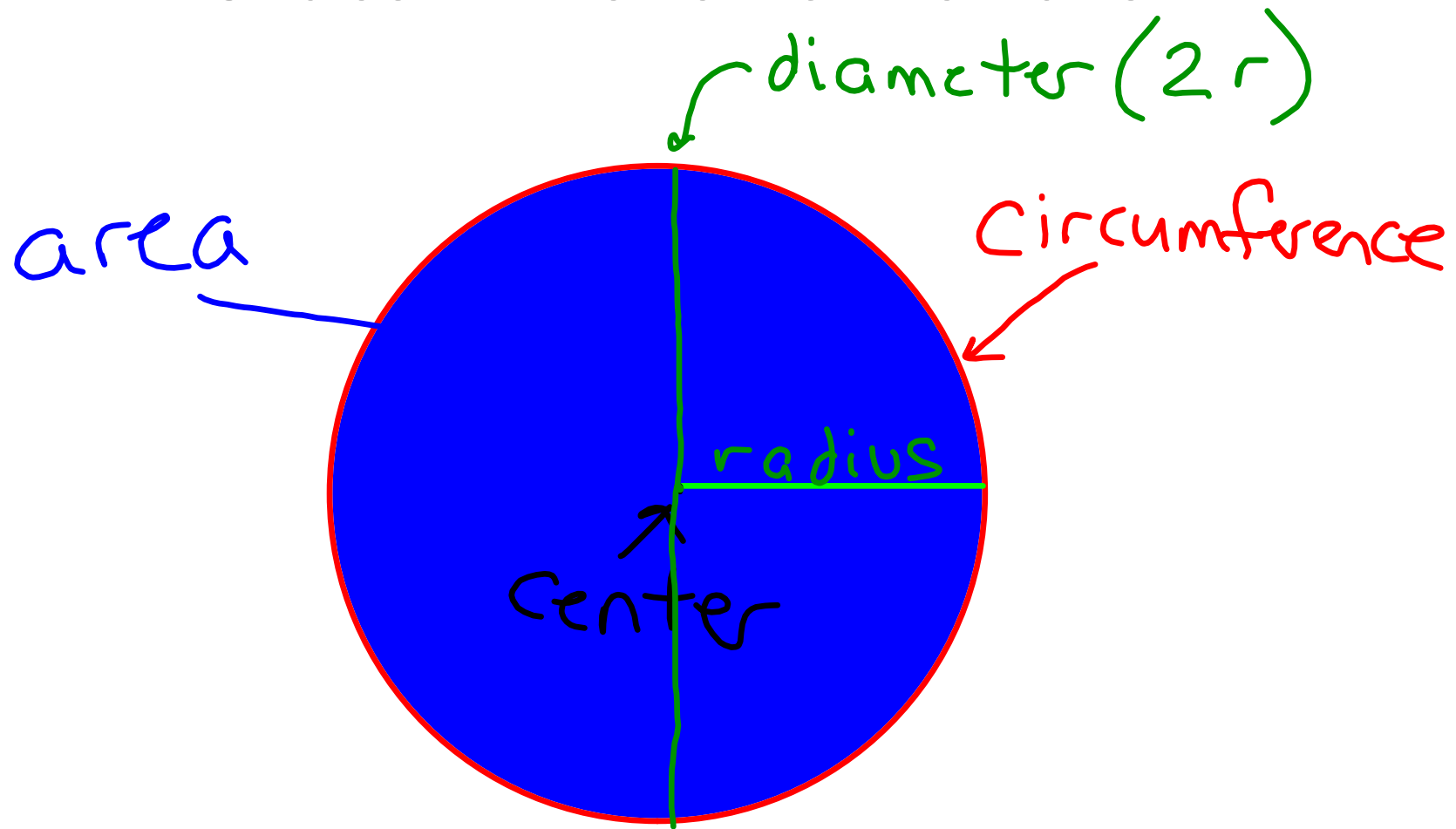


TODAY'S AGENDA: November 16th+

- Work on Khan Academy Mission:
- Complete Mission Foundation Skills
- Today's Objective: Whole-Group Lessons:
- Circles Introduction & Surface Area
- Standards:
- CCSS.MATH.CONTENT.HSG.CO.A.1:
 - Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.
- Continue With Your Mission Assignments

Circles - A Review of the Parts



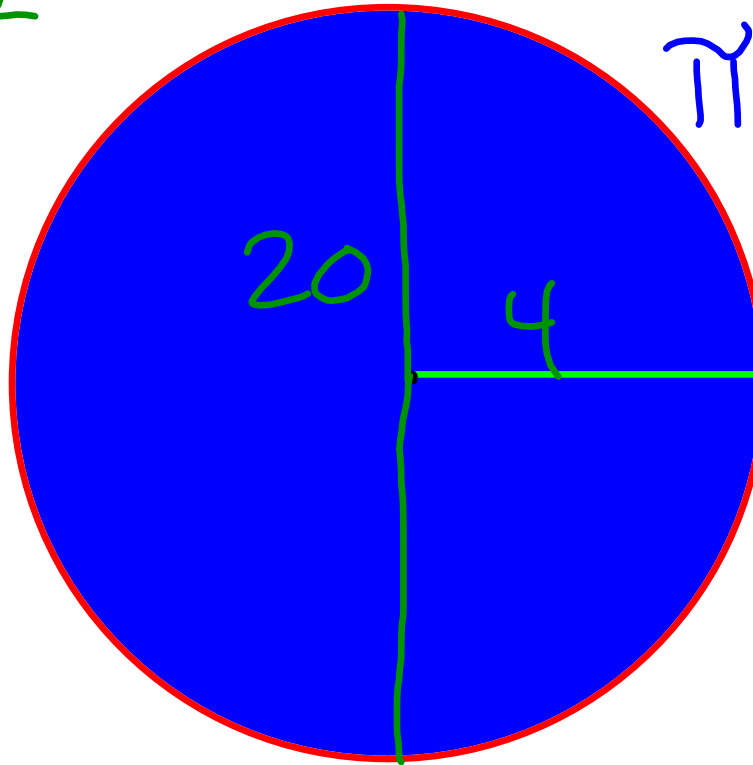
Circles - Calculating Area

$$A = \pi r^2$$

$$= \pi 4^2$$

$$16\pi$$

$$16\pi$$



In terms of $\pi \rightarrow$

π is in your answer.

$$d = 20$$

$$r = 10$$

$$A = \pi r^2$$

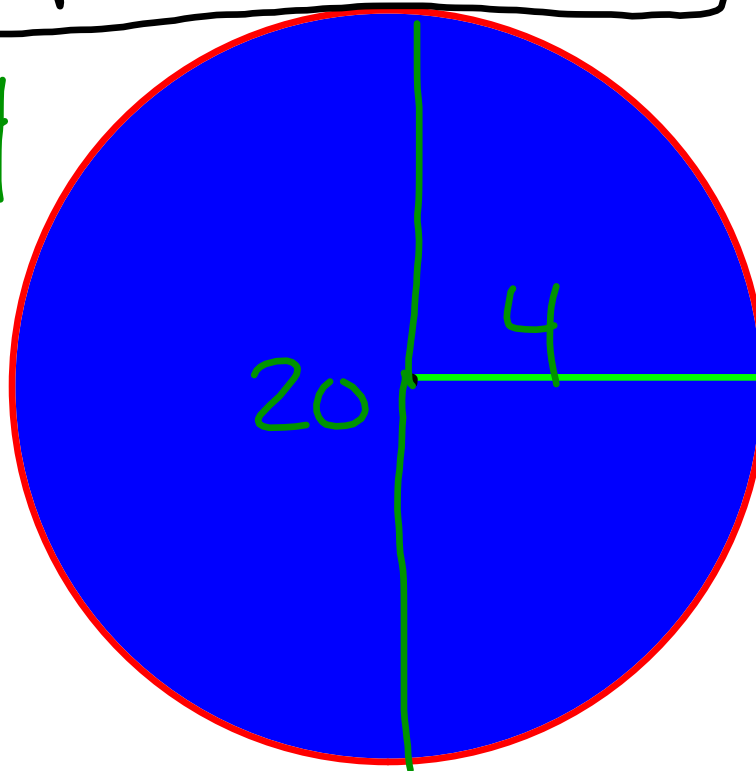
$$\pi 10^2$$

$$100\pi$$

Circles - Calculating Circumference

$$C = 2\pi r = C = d\pi$$

$$2\pi 4$$
$$C = 8\pi$$

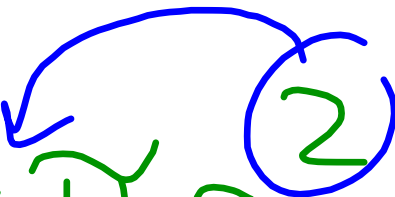


$$d = 20$$

$$r = 10$$

$$C = 2\pi r$$
$$2\pi 10$$

$$C = 20\pi$$

$$A = \pi r^2$$


$$C = 2\pi r$$

Area of Shaded Region

Area_{BIG}

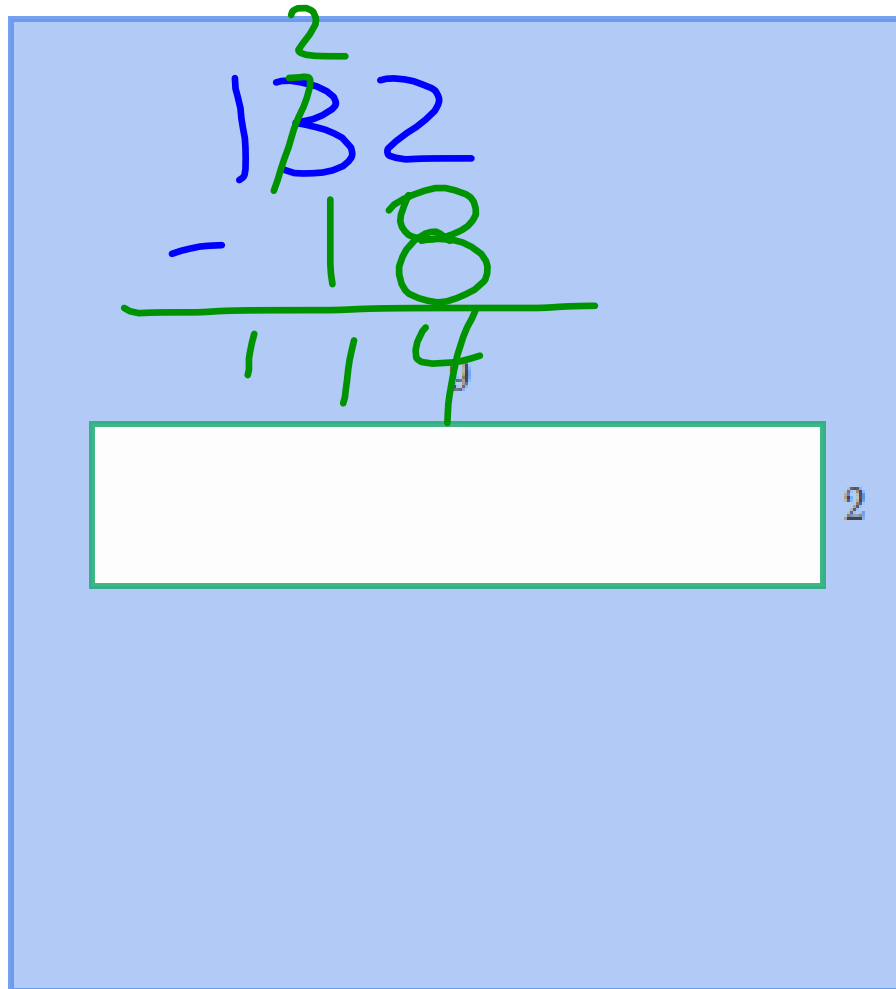
— Area_{SMALL}

Area_{shaded}

What is the area of the shaded region?

$$A = 114$$

11



$$A_{\square} = l \times w$$

$$11 \times 12$$

$$A_{\square} = 132$$

$$A_{\square} = l \times w$$

$$9 \times 2$$

$$A_{\square} = 18$$

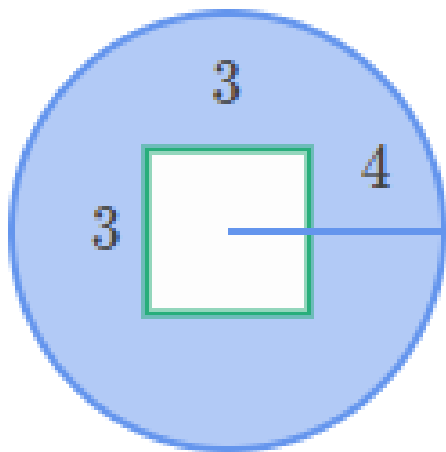
$$\begin{array}{r} 11 \\ 12 \\ \hline 132 \end{array}$$

$$\begin{array}{r} 11 \\ 22 \\ \hline 242 \end{array}$$

$$\begin{array}{r} 11 \\ 66 \\ \hline 626 \\ 726 \end{array}$$

What is the area of the shaded region?

Round your final answer to the nearest hundredth.



$$A_c = \pi r^2$$
$$= \pi 4^2$$

$$A_c = 16\pi$$

$$A_{\square} = l \times w$$
$$3 \times 3$$

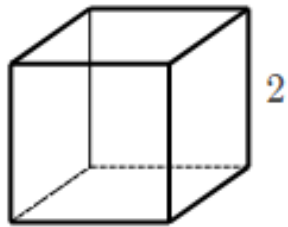
$$A_{\square} = 9$$

$$41.27$$

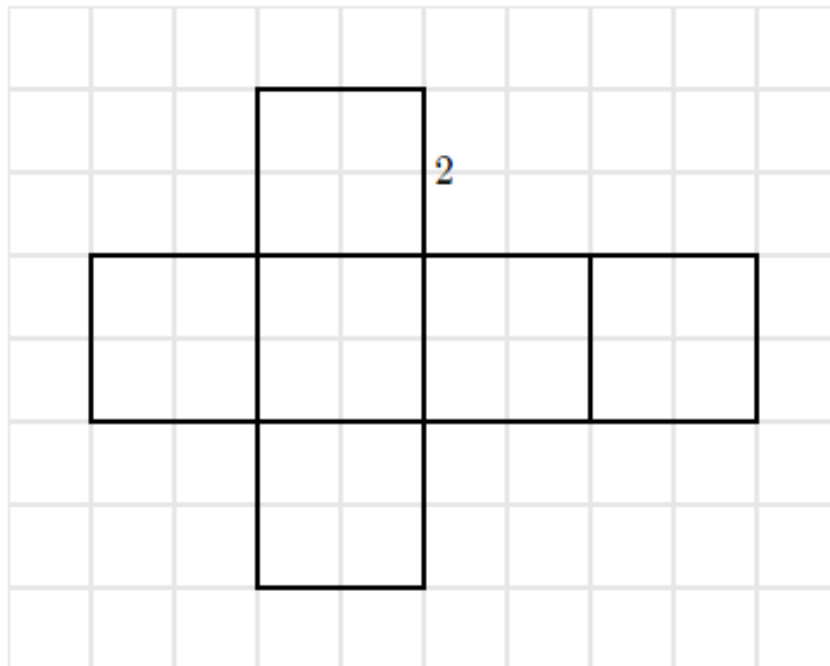
$$16\pi - 9$$

Surface Area

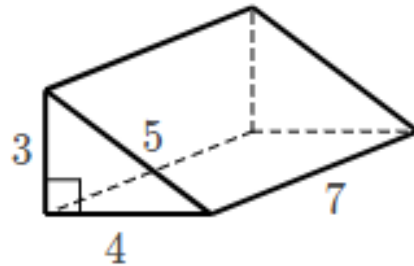
Check out this cube:



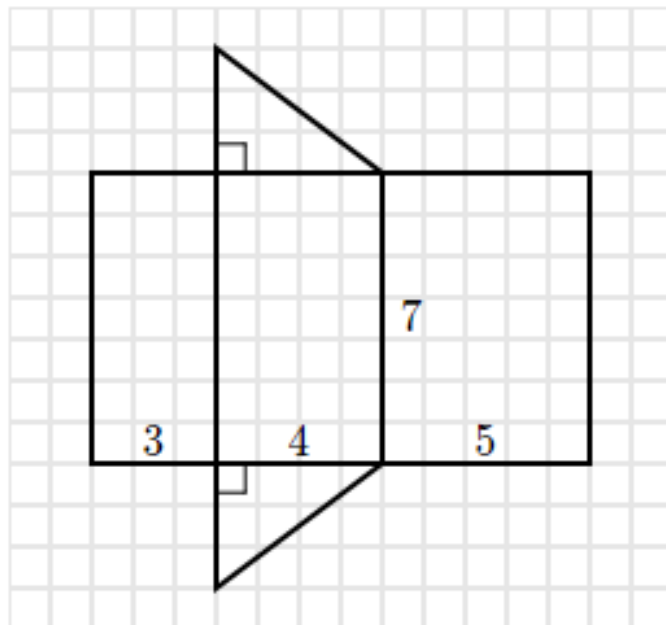
Find the surface area of the cube (above) using its net (below).



Check out this right triangular prism:



Find the surface area of the right triangular prism (above) using its net (below).



Skills You Should Be Working on:

1. Radius and Diameter
2. Area of a Circle
3. Circumference of a Circle
4. Shaded Areas
5. Nets of Polyhedra
6. Surface Area Using Nets
7. Surface Area