

Name _____

Math 7 Honors

Date _____

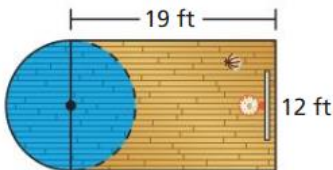
Circles w/s #3

Area ($A = \pi r^2$) & Circumference ($C = 2\pi r$)

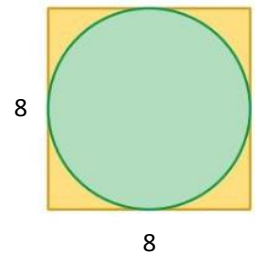
1. Determine the circumference, *to the nearest tenth*, of a circle with a diameter of 20 mm.

2. Jesse is building a circular pool for her horse bulls-eye. The radius of the pool is 21 cm. Determine the area of the pool *in terms of π* .

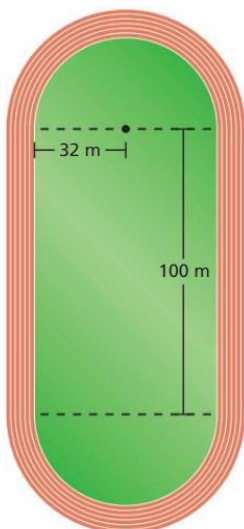
3. Find the area of the portion of the basketball court shown below. Express your answer in terms of π .



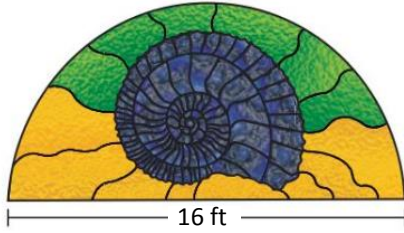
4. Find the area of the square that is **not** covered by the circle. Round your answer to the nearest tenth.



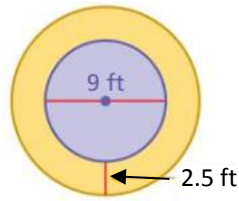
5. Bellport Middle School is planning to install a turf area inside of the track. Based on the dimensions shown, what will be the total amount of turf needed *in terms of π* ?



6. Find the perimeter of the glass window shown. Write your answer in terms of π .

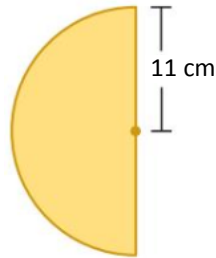


7. Determine the area of the larger circle to the nearest tenth of a foot.



8. The circumference of a circular playground can be expressed as 36π yd. Determine the radius of the playground.

9. Find the perimeter of the semicircle. Round your answer to the nearest hundredth.



10. The Rock Solid Concrete Company has been asked to pave a rectangular area surrounding a circular fountain with a diameter of 8 feet, as shown in the diagram. Find the area, to the nearest square foot, that must be paved.

