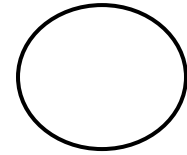


Name: _____ Per: _____



Trigonometry
Week of _____ Openers
SHOW ALL WORK FOR FULL CREDIT

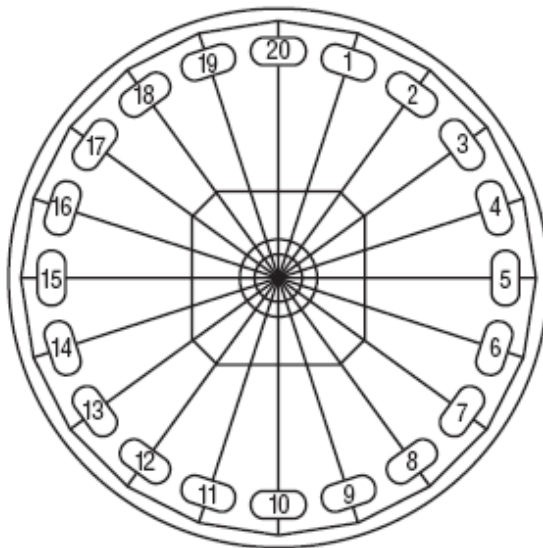
Date

Opener

Answers

AMUSEMENT PARKS For Exercises 1–4,
use the following information.

The carousel at an amusement park has 20 horses spaced evenly around its circumference. The horses are numbered consecutively from 1 to 20. The carousel completes one rotation about its axis every 40 seconds.



1. What is the central angle, in degrees, formed by horse #1 and horse #8?

2. What is the speed of the carousel in rotations per minute?

Date

Opener

Answers

5. **TIME** Through what angle, in degrees and radians, does the hour hand on a clock rotate between 4 P.M. and 7 P.M.?



6. **TIME** Through what angle, in degrees and radians, does the minute hand rotate between 4 P.M. and 7 P.M.?

6. **SCALE DRAWING** The collection pool for a fountain is in the shape of a right triangle. A scale drawing shows that the angles of the triangle are 40° , 50° , and 90° . If the hypotenuse of the actual fountain will be 30 feet, what are the lengths of the other two sides of the fountain?

Convert the following angles to radians.

210° and 510°