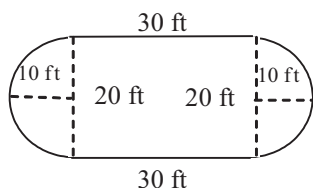NAME_____

Module 13   Perimeter, Area, and Volume
Lesson 1   Perimeter and Circumference

Set 1

1 What is the perimeter of the skating rink?

30 ft

10 ft   20 ft   20 ft   10 ft

30 ft

2 This Ferris wheel is 88 feet in diameter. If the Ferris wheel makes 15 revolutions during a ride, about how much distance is traveled?

88 ft

Set 1

1. **Each of the ends of the rink is half a circle, or a semicircle, with a radius of 10 feet.**

    $C = 2\pi r$
    $C = 2(3.14)(10)$
    $C = (3.14)(20) = 62.8 \text{ ft}$
    $P \approx 62.8 + 30 + 30 \approx 122.8 \text{ ft}$

2. $C = \pi d$
    $C = (3.14)(88)$
    $C \approx 276.32 \text{ ft} \approx 276 \text{ ft}$

    $276 \times 15 = 4{,}140 \text{ ft}$

    The distance traveled is about 4,140 ft.