Circumference of a Circle

$$C = 2\pi r$$

$$C = \pi d$$

d = diameter

Perimeter of a semicircle
Half the original circle's circumference **plus** the diameter.
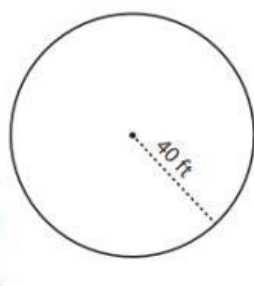
$C = 2\pi \cdot r$ $C = \pi \cdot d$

$P = \frac{1}{2}(2\pi \cdot r) + d$

$P = \pi r + d$

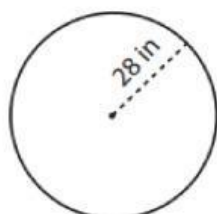$P = \pi r + 2r$

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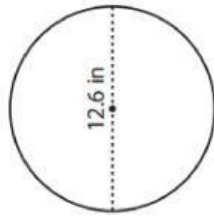Find the circumference of each circle. Round your answer to the nearest tenth. (use $\pi = 3.14$)

➤
40 ft

Circumference = _____ ft

➤
28 in

Circumference = _____ in

➤

        12.6 in   Circumference = _____ in

➤ Find the length of the plastic strip required to "x around the corner of a circular plate with a radius of 14.5 in. (use π = 3.14)

          _____

➤ An iron rod of length 10.38 ft is bent to form a circle. What is the radius of the circle?

          _____

➤ A circular paddy field has a circumference of 89.18 yd. Find its diameter.

          _____

➤ The tip of the minute-hand travels 70.96 in in one hour. Find the length of the minute-hand.
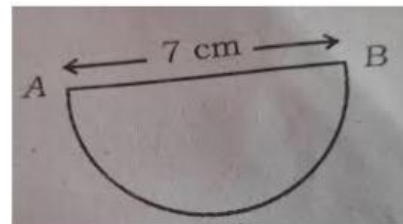
          _____

➤ The circumference of a semicircle is the sum of half of the given circle's circumference plus the diameter of the circle.

      a) TRUE   b) FALSE

➤ What is the perimeter of a semicircle with a diameter of 7 cm?

        _____

7 cm   B

A

➢ If the perimeter of a semicircle is 36 units, then find the radius.

_____

➢ calculate the circumference of a semi-circle whose diameter is 8 units.

➢ For a vehicle having wheels of radius 24cm find the distance covered by it in one complete revolution of wheels.
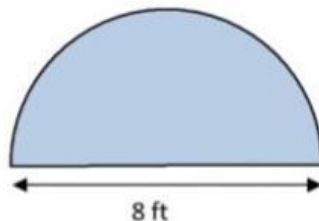
_____

➢ What is the radius of the semicircle if its perimeter is 144 units? (Use π = 3.14)

_____

➢

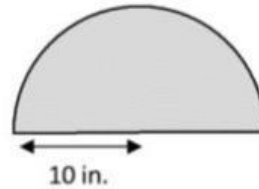A semicircular pond has a diameter of 8 ft. What is the perimeter of the pond to the nearest foot?

8 ft

Perimeter of the pond is _____.

➤

A semicircular mirror has a radius of 10 inches.
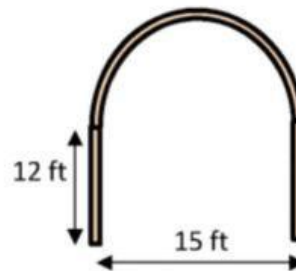What is the perimeter of the mirror?
Give your answer to 1dp

10 in.

Perimeter of the mirror is _____.

➤

The arch below is made of two straight sections and a
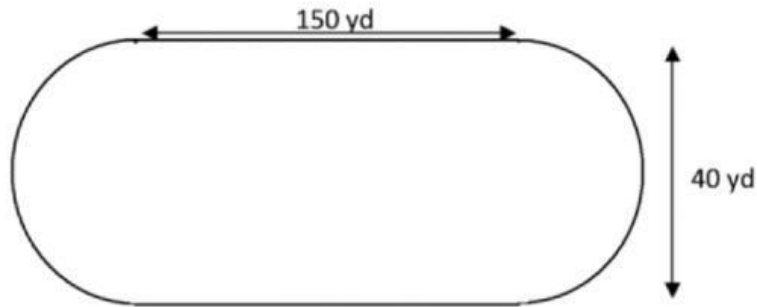semi-circle. Work out the perimeter of the arch.
Give your answer to 1 decimal place.

12 ft

15 ft

Perimeter of the arch is _____.

➤

A running track is made up of 2 semi-circles at either end and a rectangle in the middle (see diagram below).
What is the perimeter of the track to the nearest yard?

150 yd

40 yd

Perimeter of the track is _____.