

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.

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

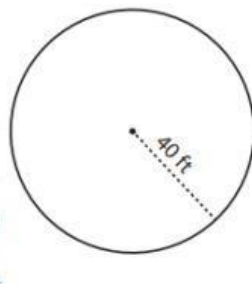
$$P = \frac{1}{2} (2\pi \cdot r) + d$$

$$P = \pi r + d$$

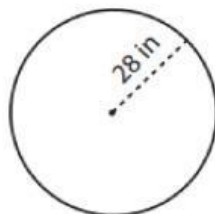
$$P = \pi r + 2r$$


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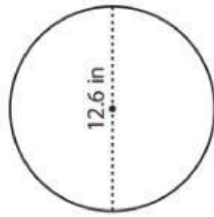
Find the circumference of each circle. Round your answer to the nearest tenth. (use $\pi = 3.14$)



Circumference = _____ ft



Circumference = _____ 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 $\pi = 3.14$)

- 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.

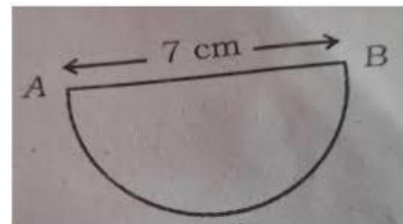
- The tip of the minute-hand travels 70.96 in in one hour. Find the length of the minute-hand.

- 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?



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

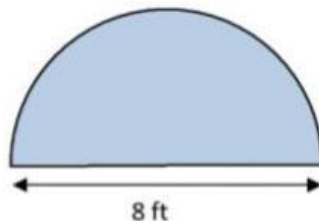
- calculate the circumference of a semi-circle whose diameter is 8 units.

- 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 $\pi = 3.14$)



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



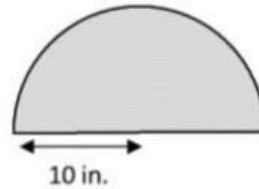
Perimeter of the pond is _____.



A semicircular mirror has a radius of 10 inches.

What is the perimeter of the mirror?

Give your answer to 1dp

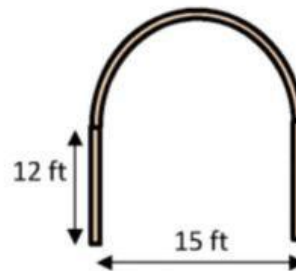


Perimeter of the mirror is _____.



The arch below is made of two straight sections and a semi-circle. Work out the perimeter of the arch.

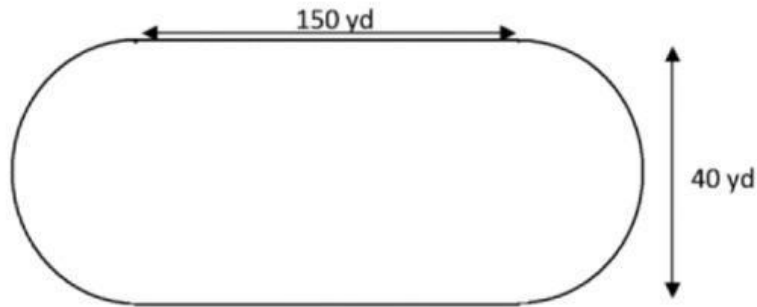
Give your answer to 1 decimal place.



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?



Perimeter of the track is _____.
