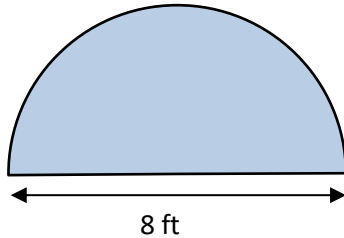




PERIMETER OF A SEMI-CIRCLE PROBLEMS 1A

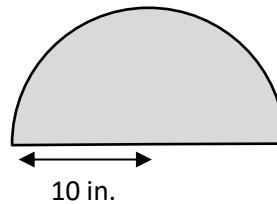
Working out

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



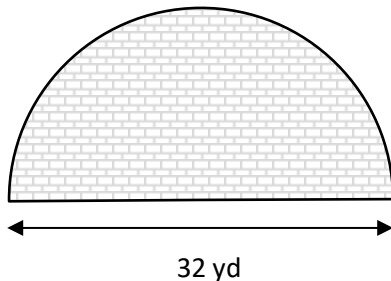
Perimeter of the pond is _____.

- 2) 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 _____.

- 3) A semicircular patio has a diameter of 32 yards.
What is the perimeter of the patio?
Give your answer to the nearest yard.



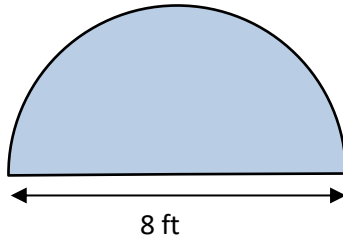
The patio has a perimeter of _____.



PERIMETER OF A SEMI-CIRCLE PROBLEMS 1A ANSWERS

Working out

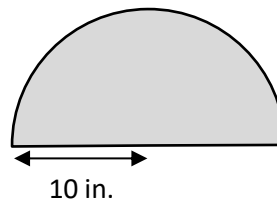
- 1) A semicircular pond has a diameter of 8 ft.
What is the perimeter of the pond to the nearest foot?



Radius of pond:
 $8 \div 2 = 4 \text{ ft}$
 Perimeter = curved part + diameter
 $= 4\pi + 8 = 21 \text{ ft to the nearest foot.}$

Perimeter of the pond is 21 ft

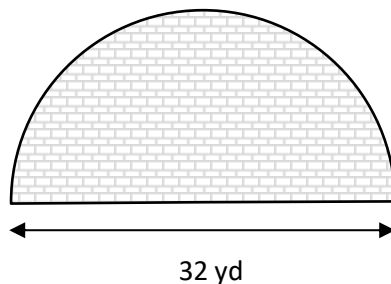
- 2) A semicircular mirror has a radius of 10 inches.
What is the perimeter of the mirror?
Give your answer to 1 decimal place.



Diameter = $10 \times 2 = 20$
 Perimeter = curved part + diameter
 $= 10\pi + 20 = 51.4$
 inches

Perimeter of the mirror is 51.4 inches.

- 3) A semicircular patio has a diameter of 32 yards.
What is the perimeter of the patio?
Give your answer to the nearest yard.



Radius = $32 \div 2 = 16 \text{ yd}$
 Perimeter = curved part + diameter
 $= 16\pi + 32 = 82$
 to the nearest yard.

The patio has a perimeter of 82 yards