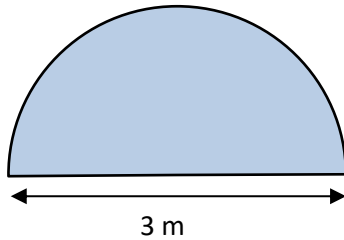




PERIMETER OF A SEMI-CIRCLE PROBLEMS 1B

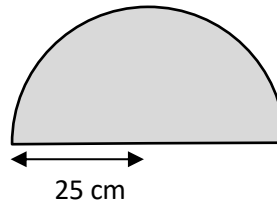
Working out

- 1) A semicircular pond has a diameter of 3 metres.
What is the perimeter of the pond?
Give your answer to 1dp



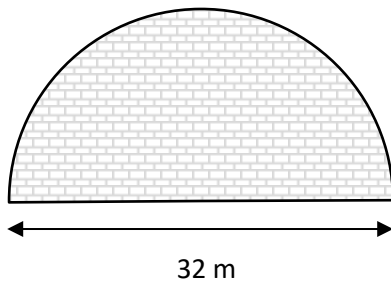
Perimeter of the pond is _____.

- 2) A semicircular mirror has a radius of 25 cm.
What is the perimeter of the mirror?
Give your answer to the nearest cm.



Perimeter of the mirror is _____.

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



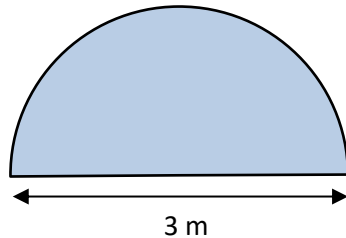
The patio has a perimeter of _____.



PERIMETER OF A SEMI-CIRCLE PROBLEMS 1B ANSWERS

Working out

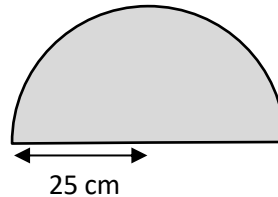
- 1) A semicircular pond has a diameter of 3 metres.
What is the perimeter of the pond?
Give your answer to 1dp



Radius of pond:
 $3 \text{ m} \div 2 = 1.5 \text{ m}$
 Perimeter = curved part + diameter
 $= 1.5 \pi + 3 = 7.7 \text{ m}$ to 1 decimal place.

Perimeter of the pond is **7.7 m**

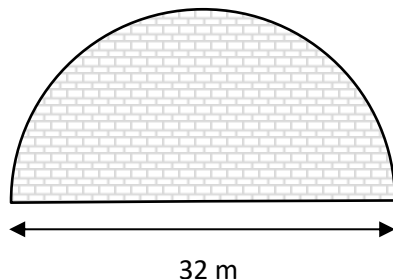
- 2) A semicircular mirror has a radius of 25 cm.
What is the perimeter of the mirror?
Give your answer to the nearest cm.



Diameter = $25 \times 2 = 50$
 Perimeter = curved part + diameter
 $= 25 \pi + 50 = 129 \text{ cm}$ to the nearest cm

Perimeter of the mirror is **129 cm or 1.29 m**

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



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

The patio has a perimeter of **82 m**