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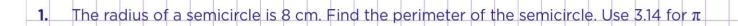
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N. I	\sim 1	
Name:	Class:	

Semicircles: calculate area, perimeter, radius, and diameter



r = 8cm $P = \frac{2\pi r}{2} + 2r$

r = 3mi

 $P = \pi r + 2r$

 $P = 3.14 \times 8cm + 2(8cm)$

25.12 + 16 = 41.12 cm

So the perimeter is 41 . 12 cm

Let's set up the formula for the perimeter (P) of the semicircle.

2. The radius of a semicircle is 3 miles. Find the area of the semicircle. Use 3.14 for π

Let's set up the formula for the area of the semicircle.

 $A = \pi r^2$

Subtitude r = 3 mi into the formula

3.14 x 3 mi x 3 mi / 2

28.26 mi /2 = 14.13 mi²

So the area is 14.13 mi²



d = 12mm Let's set up the formula for the diameter of the semicircle.

Diameter = 2r

12 mm = 2r

r = 12 mm/2

r = 6 mm

So the radius is 6 mm