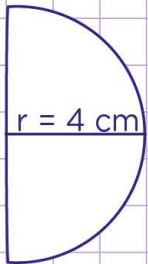


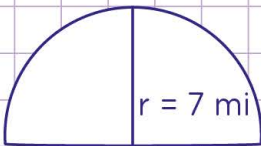
Name: Class:

Semicircles: calculate area, perimeter, radius, and diameter

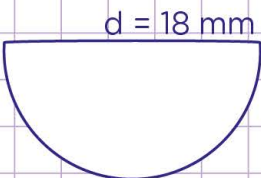
1. The radius of a semicircle is 4 cm. Find the perimeter of the semicircle. Use 3.14 for π .



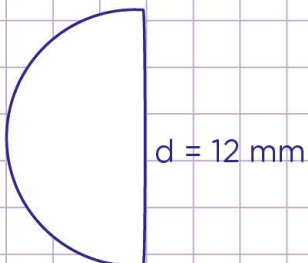
2. The radius of a semicircle is 7 miles. Find the area of the semicircle. Use 3.14 for π .



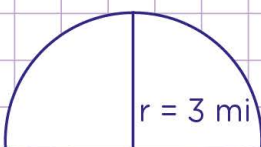
3. The diameter of a semicircle is 18 mm. Find the radius of the semicircle. Use 3.14 for π .



4. The diameter of a semicircle is 12 mm. Find the radius of the semicircle. Use 3.14 for π .



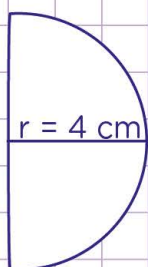
5. The radius of a semicircle is 3 miles. Find the area of the semicircle. Use 3.14 for π .



Name: Class:

Semicircles: calculate area, perimeter, radius, and diameter

1. The radius of a semicircle is 4 cm. Find the perimeter of the semicircle. Use 3.14 for π .



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

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

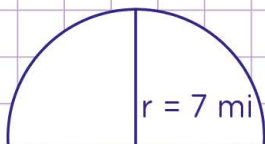
$$P = \pi r + 2r$$

$$P = 3.14 \times 4\text{cm} + 2(4\text{cm})$$

$$12.56 + 8 = 20.56 \text{ cm}$$

So, the perimeter is 20.56 cm.

2. The radius of a semicircle is 7 miles. Find the area of the semicircle. Use 3.14 for π .



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

$$A = \frac{\pi r^2}{2}$$

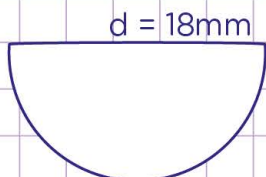
 Substitute $r = 7 \text{ mi}$ into the formula.

$$3.14 \times 7 \text{ mi} \times 7 \text{ mi} / 2$$

$$153.86 \text{ mi} / 2 = 76.93 \text{ mi}^2$$

 So, the area is 76.93 mi².

3. The diameter of a semicircle is 18 mm. Find the radius of the semicircle. Use 3.14 for π .



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

$$\text{Diameter} = 2r$$

$$18 \text{ mm} = 2r$$

$$r = 18 \text{ mm} / 2$$

$$r = 9 \text{ mm}$$

So the radius is 9 mm