

Name: _____

Find the area and perimeter/circumference of the following. Show your solutions.



CIRCLE

$$A = \pi r^2$$

$$C = 2\pi r$$

$$d = 2r$$

A = Area
C = Circumference
r = radius
d = diameter
 $\pi = 3.14$

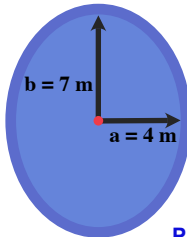


ELLIPSE

$$A = \pi ab$$

$$P = 2\pi \sqrt{\frac{a^2+b^2}{2}}$$

A = Area
P = Perimeter
a = major axis
b = minor axis
 $\pi = 3.14$



$$A = \pi ab$$

$$= 3.14 (4) (7)$$

$$= 87.92$$

87.92 m²

Area

$$P = 2\pi \sqrt{\frac{a^2+b^2}{2}}$$

$$= 2(3.14) \sqrt{\frac{4^2+7^2}{2}}$$

$$= 6.28 \sqrt{\frac{16+49}{2}}$$

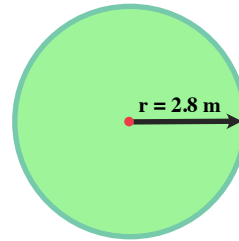
$$= 6.28 \sqrt{32.5}$$

$$= 6.28 (5.70)$$

$$= 35.80$$

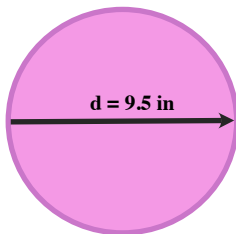
35.80 m

Perimeter



Area

Circumference

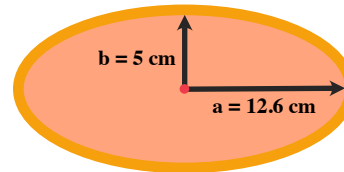


Area

Area

Circumference

Circumference

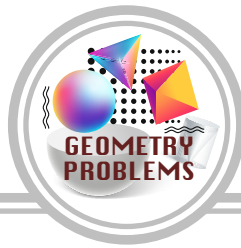


Area

Area

Perimeter

Perimeter



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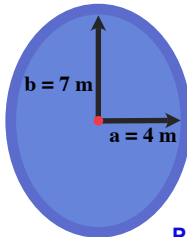


ELLIPSE

$$A = \pi ab$$

$$P = 2\pi \sqrt{\frac{a^2+b^2}{2}}$$

A = Area
P = Perimeter
a = major axis
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$$A = \pi ab$$

$$= 3.14 (4) (7)$$

$$= 87.92$$

87.92 m²
Area

$$P = 2\pi \sqrt{\frac{a^2+b^2}{2}}$$

$$= 2(3.14) \sqrt{\frac{4^2+7^2}{2}}$$

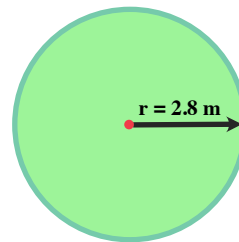
$$= 6.28 \sqrt{\frac{16+49}{2}}$$

$$= 6.28 \sqrt{32.5}$$

$$= 6.28 (5.70)$$

$$= 35.80$$

35.80 m
Perimeter



$$A = \pi r^2$$

$$= 3.14 (2.8^2)$$

$$= 3.14 (7.84)$$

$$= 24.62 \text{ m}$$

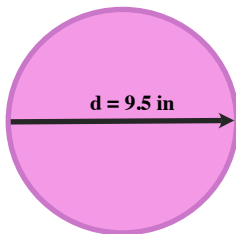
24.62 m²
Area

$$C = 2\pi r$$

$$= 2 (3.14) (2.8)$$

$$= 17.58$$

17.58 m
Circumference



$$A = \pi r^2$$

$$= 3.14 (4.75^2)$$

$$= 3.14 (22.56)$$

$$= 70.85$$

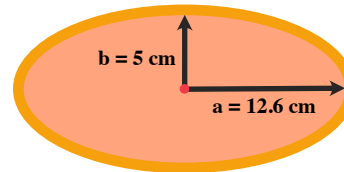
70.85 in²
Area

$$C = 2\pi r$$

$$= 2 (3.14) (4.75)$$

$$= 29.83$$

29.83 in
Circumference



$$A = \pi ab$$

$$= 3.14 (12.6) (5)$$

$$= 197.82$$

197.82 cm²
Area

$$P = 2\pi \sqrt{\frac{a^2+b^2}{2}}$$

$$= 2(3.14) \sqrt{\frac{12.6^2+5^2}{2}}$$

$$= 6.28 \sqrt{\frac{158.76+25}{2}}$$

$$= 6.28 \sqrt{91.88}$$

$$= 6.28 (9.59)$$

$$= 60.23$$

60.20 cm
Perimeter