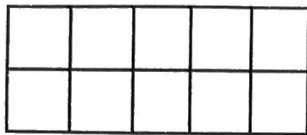


Area means the amount of space an object covers (i.e. its "footPrint".)



$$A = lw$$

$$5 \cdot 2$$

$$10 \text{ in}^2$$

Area of a Circle: $A = \pi \cdot r^2$
 $= \pi \cdot r \cdot r$

Can Approximate Area 2 ways

$\pi = 3.14$ or use π button

Less precise

more precise
 ↓
 more digits

Determine the area of each circle. Round to the nearest hundredth.

a) Approx (use 3.14)

b) Approx (w/ π button)

1)



2) Circle with diameter 8.5 inches
 radius: 4.25 in

a) $A = \pi r^2$

$$\approx 3.14 \cdot 4^2$$

$$A \approx 50.24 \text{ cm}^2$$

a) $A = \pi r^2$

$$\approx 3.14 \cdot 4.25^2 \approx 56.71625$$

$$\approx 56.72 \text{ in}^2$$

b) $A = \pi \cdot 4^2$

$$\approx 50.26548...$$

$$\approx 50.27 \text{ cm}^2$$

↓
 more precise

[Rounds to HUNDRETHS]

b) $\approx \pi \cdot 4.25^2$

$$\approx 56.74501...$$

$$\approx 56.75 \text{ in}^2$$

↓
 more precise

Circumference of a Circle:

$$C = \pi \cdot d \text{ or } C = \pi \cdot 2 \cdot r$$

Can Approximate Circumference 2 Ways

$$\pi = 3.14$$

or

use π button

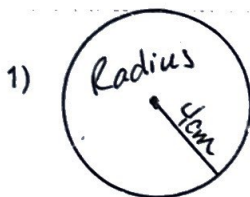
Less precise

more precise

Determine the Circumference of each circle. Round to the nearest hundredth.

a) Approx (use 3.14)

b) Approx (w/ π button)



2) Circle with diameter 8.5 inches

a) $C = 2\pi r$

$$C \approx 2 \cdot 3.14 \cdot 4$$

$$C \approx 25.12 \text{ cm}$$

a) $C = \pi \cdot d$

$$C \approx \pi \cdot 8.5$$

$$\approx 3.14 \cdot 8.5$$

$$\approx 26.69 \text{ in}$$

[ROUND TO HUNDRETHS]

b) $C = 2\pi \cdot 4$

$$C \approx 8\pi$$

$$C \approx 25.13244\dots$$

$$C \approx 25.13 \text{ cm}$$



more precise

b) $C \approx \pi \cdot 8.5$

$$\approx 26.70353\dots$$

$$\approx 26.70 \text{ in}$$

more precise