



Area and Circumference of Circles

Name _____ Class _____ Date _____

1 If a circle has a **diameter** of 30 cm, what are the **circumference** and the **area**?

$C = \pi d$ $A = \pi r^2$

- A the circumference = the area
- B $C = 706.5$ cm and $A = 94.2$ sq. cm
- C $C = 94.2$ cm and $A = 706.5$ sq. cm
- D the area is less than 100 sq. cm

2 If a circle has a **diameter** of 21 inches, what are the **circumference** and the **area**?

$C = \pi d$ $A = \pi r^2$

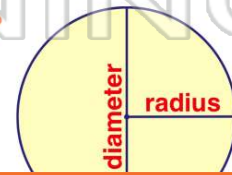
- A the circumference = the area
- B $C = 65.94$ in. and $A = 314.05$ sq. in.
- C the area is less than 100 sq. in.
- D $C = 65.94$ in. and $A = 346.185$ sq. in.

3 The **circumference** of a circle is always a **larger** number than the **area**.
True or false?



4 The **radius** is one-half the **diameter**.
True or false?

- A true
- B false



PREVIEW

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True or false?

- A true
- B false



$C = \pi d$

- A true
- B false

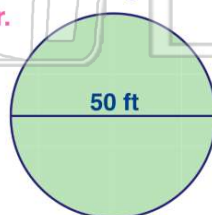


9 Fencing measuring 157 feet is a perfect fit for a circle measuring 50 feet in diameter.

$C = \pi d$

True or false?

- A true
- B false



10 A farmer needs to put a fence around his circular pasture. The pasture is 50 feet in diameter. How much fencing does he need?

$C = \pi d$

- A 138 feet
- B 157 feet
- C 149 feet
- D 173 feet





ANSWER KEY

If a circle has a **diameter** of 30 cm, what are the **circumference** and the **area**?

$C = \pi d$ $A = \pi r^2$

- A** the circumference = the area
- B** C = 706.5 cm and A = 94.2 sq. cm
- C** C = 94.2 cm and A = 706.5 sq. cm
- D** the area is less than 100 sq. cm

(c)

If a circle has a **diameter** of 21 inches, what are the **circumference** and the **area**?

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- D** C = 65.94 in. and A = 346.185 sq. in.

(d)

The **circumference** of a circle is always a **larger** number than the **area**.

True or false?

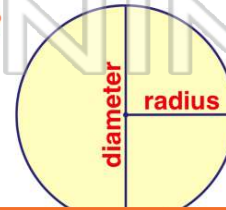


(b)

The **radius** is one-half the **diameter**.

True or false?

- A** true
- B** false



(a)



PREVIEW

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- A** true
- B** false



- A** true
- B** false

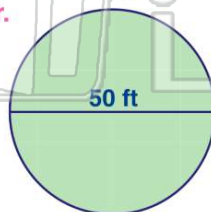


Fencing measuring **157 feet** is a perfect fit for a circle measuring **50 feet in diameter**.

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True or false?

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- B** false



(a)

A farmer needs to put a fence around his circular pasture. The pasture is **50 feet in diameter**. How much fencing does he need?

$C = \pi d$

- A** 138 feet
- B** 157 feet
- C** 149 feet
- D** 173 feet



(b)