Area and Circumference of Circles

Math

Name_____ Class_____ Date_____

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

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

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**?

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

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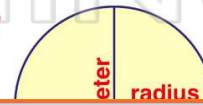C the area is less than 100 sq. in.
D C = 65.94 in. and A = 346.185 sq. in.

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

radius

5
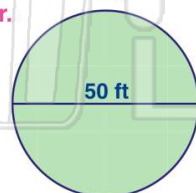
7

True or false?

A true
B false

C=πd

A true
B false

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

C=πd

True or false?

A true
B false

50 ft

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=πd

A 138 feet $\qquad$ C 149 feet
B 157 feet $\qquad$ D 173 feet

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

D

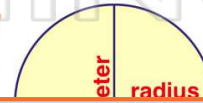**3** The **circumference** of a circle is always a **larger** number than the **area**.

True or false?

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True or false?

A true

radius

A

5

B

7

B

True or false?

A true
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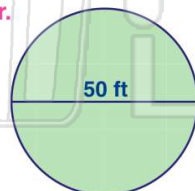
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B

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