

7th Grade
June 7, 2021

Today we will:

- Take notes
- Complete WS
- Check answers

HOMEWORK:

None



Complete and put into binder. Name _____

Circles Notes, Ch12 Lesson 1, June 7

Circumference is a special name for the perimeter of a circle.

It is the distance around the circle.

If you were to "cut open" the circle and straighten it out, the length of this line segment would be the circumference.

Use 3.14 for π or use the button on the calculator!

CIRCUMFERENCE

r

This is one formula for circumference!

Twinkle, twinkle little star...
Circumference equals $2\pi r$

Sometimes, the circle will show the diameter (the distance all the way across the center); if this is the case, you can just use this formula:

CIRCUMFERENCE

d

This formula works too!
(because d is the same as $2r$)

Tweedle-dee-dum and Tweedle-dee-dee,
Around the circle is π times d !

Complete and put into binder. Name _____

Circles Video Notes, Ch12 Lesson 1, June 7

*Calculator ok**

Formula for Circumference: $2\pi r$ or πd

Find the circumference of each circle. Round to the nearest tenth.

1.



$$\begin{aligned} C &= 2 \cdot \pi \cdot r \\ &= 2 \cdot \pi \cdot 9 \\ &= 56.5 \text{ m} \end{aligned}$$

2.



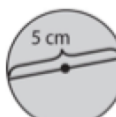
$$\begin{aligned} C &= \pi d \\ &= \pi \cdot 17 \\ &= 53.4 \text{ ft} \end{aligned}$$

3.



$$\begin{aligned} C &= \pi \cdot d \\ &= \pi \cdot 3 \\ &= 9.4 \text{ yd} \end{aligned}$$

4.



$$\begin{aligned} C &= \pi \cdot d \\ &= \pi \cdot 5 \\ &= 15.7 \text{ cm} \end{aligned}$$

5. radius = 7 kilometers

$$\begin{aligned} C &= 2\pi r \\ &= 2 \cdot \pi \cdot 7 \\ &= 44.0 \end{aligned}$$

6. diameter = 20 cm

$$\begin{aligned} C &= \pi \cdot d \\ &= \pi \cdot 20 \\ &= 62.8 \text{ cm} \end{aligned}$$

7. diameter = 8.5 meters

$$\begin{aligned} C &= \pi \cdot d \\ &= \pi \cdot 8.5 \\ &= 26.7 \text{ m} \end{aligned}$$

8. radius = 11 yards

$$\begin{aligned} C &= 2\pi r \\ &= 2 \cdot \pi \cdot 11 \\ &= 69.1 \text{ yd} \end{aligned}$$

$2 \div 5 = 0.4$
6 unit $\frac{2}{5}$
9. diameter = $6 \frac{2}{5}$ feet = 6.4

$$\begin{aligned} C &= \pi \cdot d \\ &= \pi \cdot 6 \frac{2}{5} \\ &= 20.1 \text{ ft} \end{aligned}$$

10. radius = 25 inches

$$\begin{aligned} C &= 2\pi r \\ &= 2 \cdot \pi \cdot 25 \\ &= 157.1 \text{ in.} \end{aligned}$$