

Circumference and Area of Circles

Find the area of each

- 1) 452.2
- 2) 615.4
- 3) 254.3
- 4) 379.9
- 5) 21.2
- 6) 3651.2
- 7) 547.1

Commented [1]: You have to make sure that you include your measurements e.g. in² with your answers.

Commented [2]: Recheck your calculations. I get 3653.1 in²

Find Circumference

- 9) 50.2
- 10) 52.1
- 11) 26.4
- 12) 38.9
- 13) 32.7
- 14) 69.7
- 15) 59.7
- 16) 58.4

Find the Radius

- 17) 10
- 18) 11
- 19) 4.0
- 20) 3.97

Commented [3]: Recheck your calculations. I get 2 yd.

Find Diameter

21) 64.0

22) 25

Diameter of a circle formula
 $A = \pi r^2$

The diameter is:
 $d = r^2$

$d = 8(2) = 16$ in

Answer

Your measurement is in inches instead of inches squared because you had to use the square root to find the radius.

$$\frac{201.1}{\pi} = \pi r^2$$

$$\frac{201.1}{3.14} = r^2$$

$$\frac{201.1}{3.14} \sqrt{\quad} = r$$

$$8 = r$$

You can use the online calculator. Hit the square root first then put in your number.



Commented [4]: These are incorrect. You have to know the formula for finding the diameter of a circle. However, you have to find the radius first since it is not given to you.

See my illustration for #21 to correct your answers. Here's a helpful video: https://youtu.be/8_dgzE0AUOc

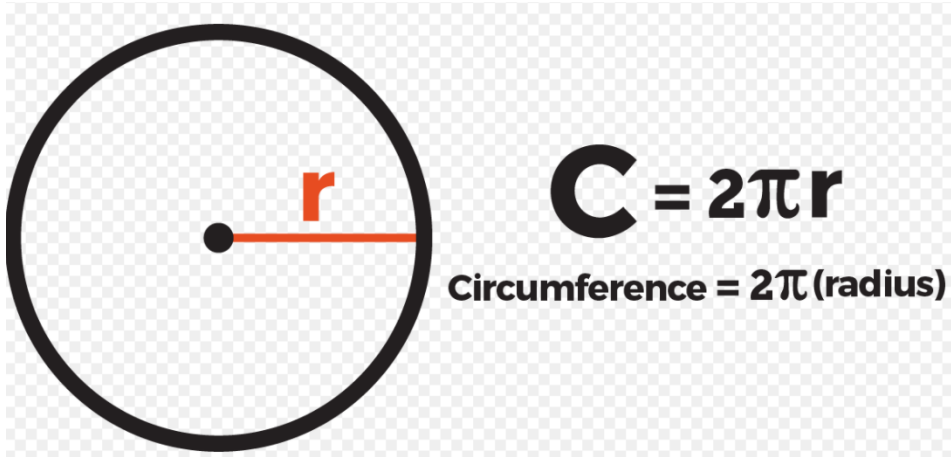
Find the Circumference

23) 28.26

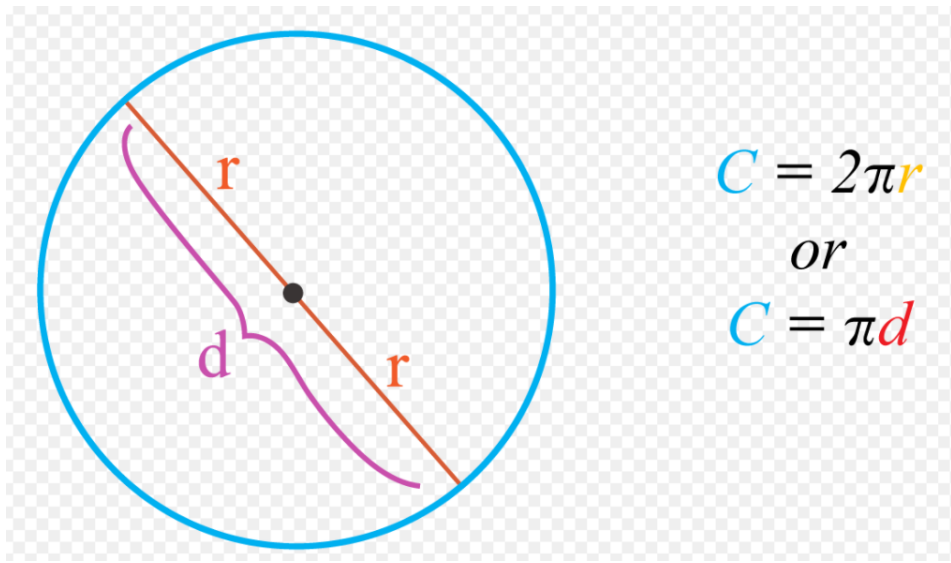
24) 15.7

Commented [5]: Recheck your calculations for both. This video will help explain how to find the circumference. <https://youtu.be/32SxvAz3uPc>.

See the formulas for circumference. You will see that all you are doing is manipulating the formula.



OR



Find the Area

- 25) 9.9
- 26) 38.5

Commented [6]: Recheck your calculations. See the formula for Area above (#21). This video source (below) will help to explain the multiply steps that you have to perform to get your answer. I suggest familiarizing yourself with the formulas as best you can.

<https://youtu.be/GZzo8-QIXw4>

27) Find the radius of a circle so that its area and circumference have the same value.

Commented [7]: Omit This problem.