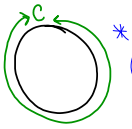
4.2 Circumference Jan. 10/18

Circumference – the distance around a circle.
Also known as the perimeter of a circle.



$C = \pi d$ $\frac{C}{d} = 3.14... = \pi$

To calculate the circumference of a circle multiply pi ($\pi = 3.14$) by the diameter.

ex(1):

$C = \pi d$
$= (3.14)(5.1)$
$= 16.014 cm$

① write formula
② fill in values
③ evaluate (aka find the answer).
④ use correct units.

estimate to ensure your answer is reasonable.

$C = \pi d$
$= (3)(5)$
$= 15 cm$

ex(2): Find the circumference. $C = 2\pi r$

given the radius

$C = 2\pi r$
$= 2(3.14)(4.1)$ ← just multiply these 3 numbers together.
$= 25.748 cm$

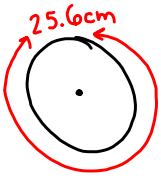
Textbook (p. 136 – 137)
#1, 3, 4, 5

4.2 Circumference – Part 2 Jan. 11/18

When you are given the circumference divide it by pi ($\pi = 3.14$) to get the diameter.

$d = \frac{C}{\pi}$

ex:



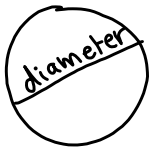
Find the diameter.

$d = \frac{C}{\pi} = \frac{25.6}{3.14} = 8.15 cm$

If you have to find the radius do the same process and then half the diameter.

ex: What is the radius if the circumference is 62.8 cm?

$d = \frac{C}{\pi} = \frac{62.8}{3.14} = 20 cm$



$r = 20 \div 2 = 10 cm$