

The circumference of a circle relates to one of the most fundamental and important constants in all of mathematics. This is the number pi. Circumference and diameter are related in this linear correlation:

$$c = \pi \cdot d.$$

The radius can be substituted for the diameter in the following way:

$$c = \pi \cdot d = \pi \cdot 2r,$$

where r is the radius and d is the diameter of a circle, and the Greek letter π is a mathematical constant.

That's why

- A) increased 2-fold
- B) increased 2-fold
- C) increased 3-fold