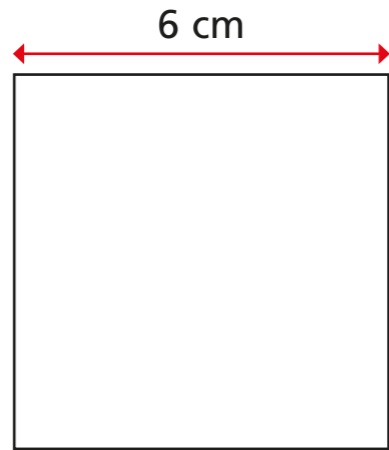


Understand π as a ratio

1



a) What is the length of the square?

b) What is the perimeter of the square?

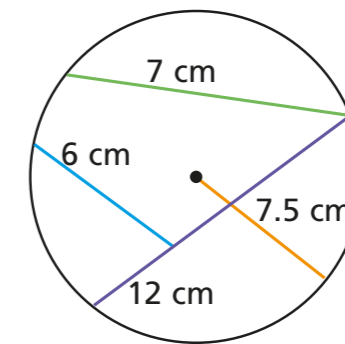
c) What is the ratio of length : perimeter of the square? :

d) Will this ratio always be the same? Talk about it with a partner.

e) Will the ratio be the same for any other shapes? Why?



3



What is the diameter of the circle?

diameter =

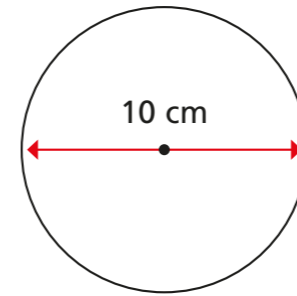
How do you know? Talk about it with a partner.



2

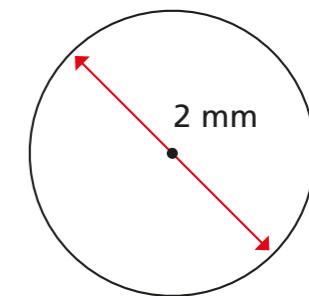
What is the diameter of each of these circles?

a)



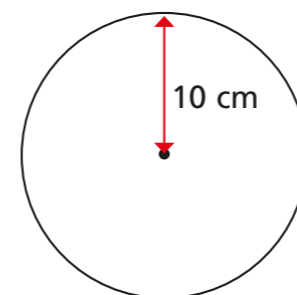
diameter =

c)



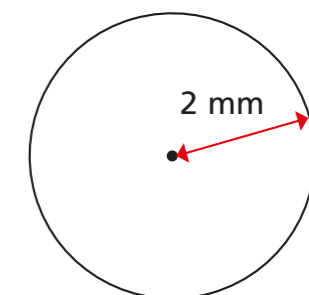
diameter =

b)



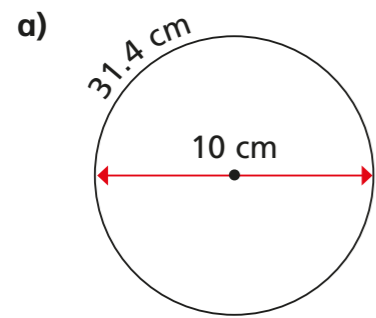
diameter =

d)

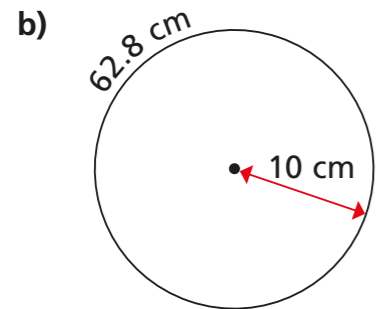


diameter =

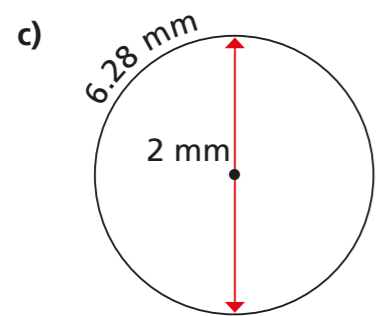
4 Write the ratio of diameter : circumference for each circle in the form 1 : n



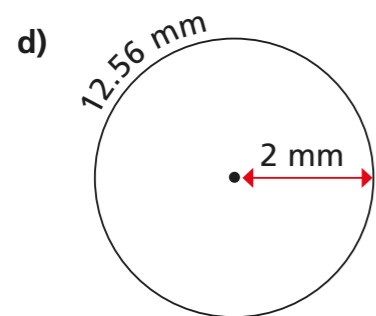
10 cm : 31.4 cm = 1 :



20 cm : 62.8 cm = :



: = :



: = :

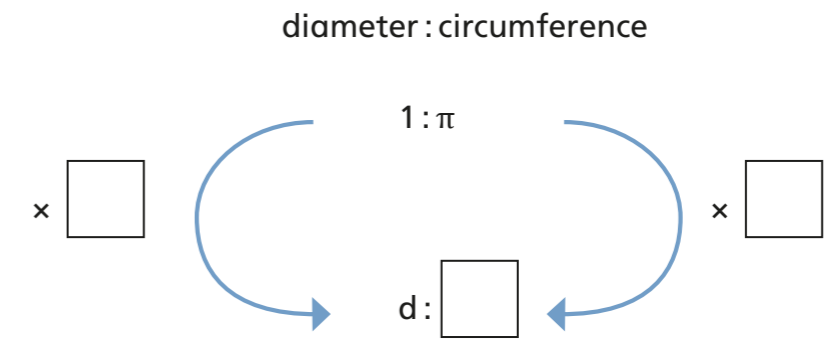
e) What do you notice about your answers?

f) Complete the sentence.

For any circle, the ratio of diameter : circumference can be written as

1 : , or more accurately 1 : π

5 Complete this representation.



The circumference of a circle is equal to _____

$C = \text{$

6 Calculate the circumference of the circles.

