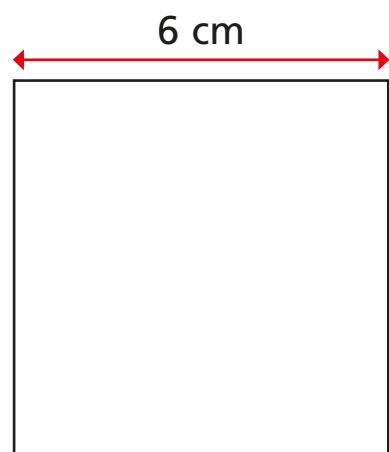


Understand π as a ratio

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.

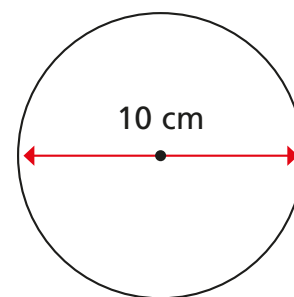
e) Will the ratio be the same for any other shapes? Why?



2

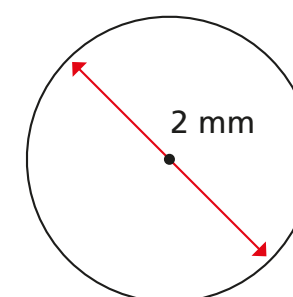
What is the diameter of each of these circles?

a)



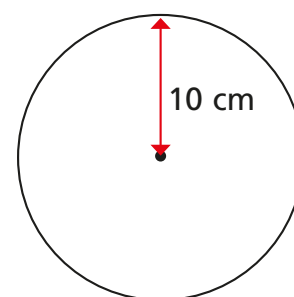
diameter =

c)



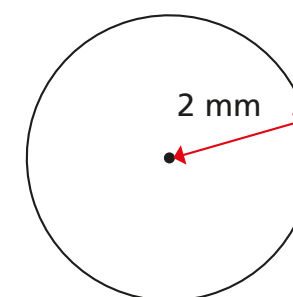
diameter =

b)



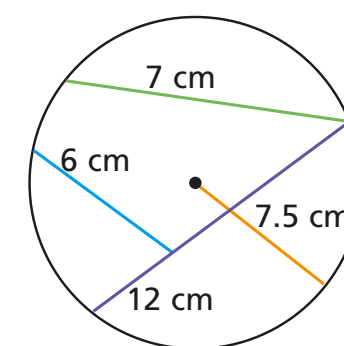
diameter =

d)



diameter =

3



What is the diameter of the circle?

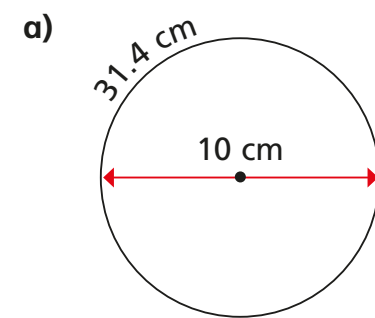
diameter =

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

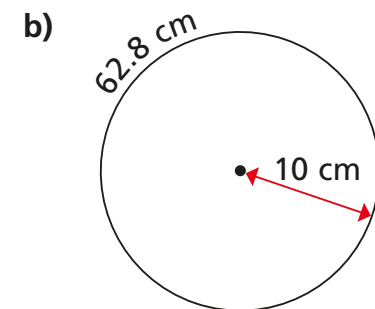


4

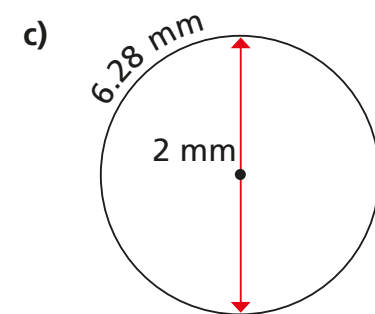
Write the ratio of diameter : circumference for each circle in the form 1 : n



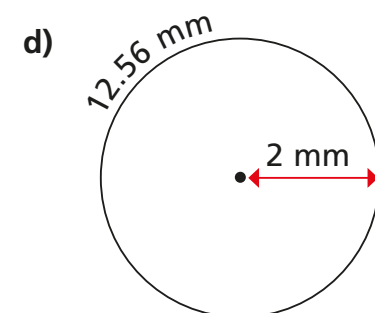
$10 \text{ cm} : 31.4 \text{ cm} = 1 :$



$$20 \text{ cm} : 62.8 \text{ cm} = \boxed{} : \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{} \div \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{} \div \boxed{}$$

e) What do you notice about your answers?

f) Complete the sentence.

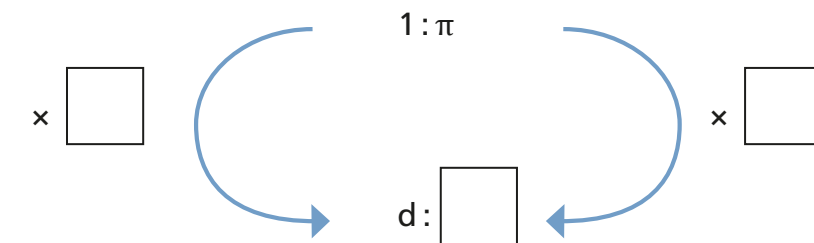
For any circle, the ratio of diameter:circumference can be written as

1: , or more accurately 1:___

5

Complete this representation.

diameter : circumference



The circumference of a circle is equal to _____

C =

6

Calculate the circumference of the circles.

