

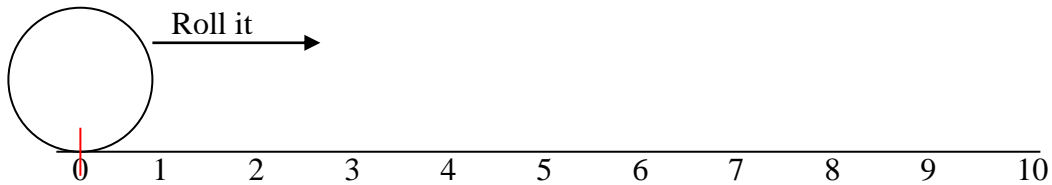
Circumference and Area of Circles
Lesson – 1

Name: _____

1. Kelly and Sandra are explaining to Jonathan a way to measure the circumference of a circle.

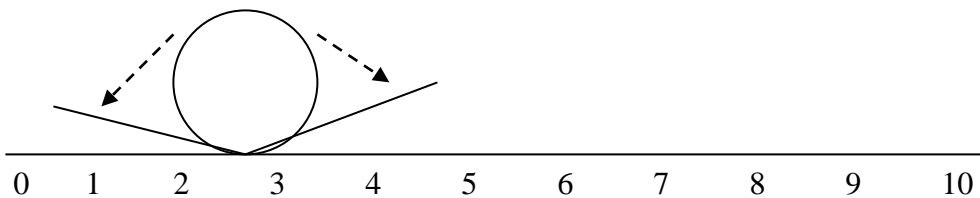
Kelly says, “One way of finding the length of the circumference is by rolling the circle along a ruler. You can mark the circle at a point on its circumference. Then, you place the circle on the ruler so that its mark touches exactly at point zero (‘0’) of the ruler.”

He draws this diagram:



He continues to say, “You roll the circle across the ruler until the mark makes a full round and touches the ruler once again. At that point, you read the number on the ruler and that is the length of the circumference.”

Jonathan seems puzzled. So Sandra adds, “You can also think of it as opening up the circle and extending its circumference, making a straight line. Then you can measure it with a ruler.” She draws this diagram:



Question:

Are the methods explained by Kelly and Sandra correct? Incorrect? How do you know? Explain your answer for each case.

Kelly’s method is _____ because

Sandra's method is _____ because

- 2. How can the explanations given by Kelly and Sandra help you select the best method for your "Which Method?" final project? Explain your answer.**