

Assessment Task

TI-15 Explorer™: Pieces of Pi

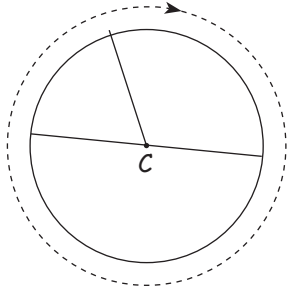
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Name: _____

1. Look around your classroom and list 3 examples you can see of a circle:

- i) _____
- ii) _____
- iii) _____

2. Draw lines to match the following circle definitions to their names and their place on the diagram:

diameter	A line from the centre of the circle to any point on the circle	
radius	The perimeter of the circle (distance right around the circle)	
circumference	A line that goes from one side of the circle to the other while passing through the circle centre	

3. Fill in the blanks in the following sentences:

- i) The _____ of a shape is the distance around the outside of a shape.
- ii) The _____ of a circle is the distance around the outside of the circle.

4. Circle which of the following units that may be used to measure the circumference of a circle:

km litre cm² m m³ mm degree
second distance cm millimetre kg cubic-centimetre angle

5. The Greek letter π is used to describe which of the following ratios:

- A. Radius/Diameter B. Circumference/Diameter C. Diameter/Circumference
- D. Circumference/Radius E. Radius/Circumference

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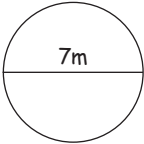
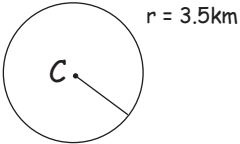
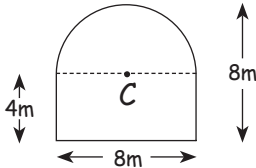
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6. Explain what it means when we say that π is an **irrational** number:

7. Draw an arrow to indicate where the π button is located on this calculator:



8. Show your working in order to calculate the **exact** answer for the distance around the following shapes:

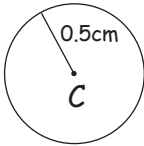
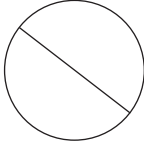
<p>a)</p> 	
<p>b)</p> 	
<p>c)</p> 	

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9. Show your working in order to calculate an **approximate** answer for the distance around the following shapes:

a) 	
b) 	
c) 