

7.G Circumference of a Circle

Task

a. Draw circles with diameters as indicated below and measure their circumferences to complete the following table.

Diameter of Circle (inches)	Circumference of Circle (inches)	$\frac{\text{Circumference of Circle}}{\text{Diameter of Circle}}$
1		
2		
3		
$\frac{1}{2}$		

b. The number π can be defined as the circumference of a circle with diameter 1 (unit). Using your knowledge about circles (that is, *without measuring*), complete the following table. Explain how you know the circumferences of the different circles.

Diameter of Circle (inches)	Circumference of Circle (inches)	$\frac{\text{Circumference of Circle}}{\text{Diameter of Circle}}$
1	π	π
2		
3		
$\frac{1}{2}$		

c. How does the information in the two tables compare? Explain.



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