

Arcs and sectors

The numbers in the lower grid are 12 of the 13 missing numbers in the upper grid. What is the 13th missing number?

θ (in radians)	r (cm)	Arc Length (cm)	Perimeter of Sector (cm)	Area of Sector (cm ²)
	8		20.8	
	10			
		5.5		13.75
1.5				12

5	6	14	15.5	0.4	4
19.2	24	0.6	1.1	4.8	4

Solution

θ (in radians)	r (cm)	Arc Length (cm)	Perimeter of Sector (cm)	Area of Sector (cm ²)
0.6	8	4.8	20.8	19.2
0.4	10	4	24	20
1.1	5	5.5	15.5	13.75
1.5	4	6	14	12