

Chapter 12 Solids
Scaling Circles

1. Complete the table.

CIRCLES		
RADIUS	CIRCUMFERENCE	AREA
1 cm	$2\pi(1\text{ cm}) = 2\pi\text{ cm}$	$\pi(1\text{ cm})^2 = \pi\text{ cm}^2$
2 cm		
3 cm		
10 cm		

FOR THE CIRCUMFERENCE OF
A CIRCLE, $C = 2\pi r$

AND FOR THE AREA OF
A CIRCLE, $A = \pi r^2$



2. From your completed table, when the radius of a circle is doubled,
its area increases by a factor of _____.

When the radius is increased by a factor of 10, the area increases
by a factor of _____.

3. Consider a round pizza that costs \$5.00. Another
pizza of the same thickness has twice the diameter.
How much should the larger pizza cost?

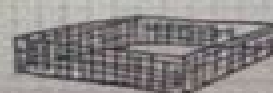
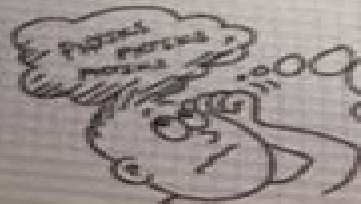
4. [True] [False] If the radius of a circle is increased by a certain factor, say 5, then the area
increases by the square of the factor, in this case 5^2 or 25.

So if you scale up the radius of a circle by a factor of 10, its area will increase by _____.

Application:

5. Suppose you raise chickens and spend \$50 to buy wire for a chicken pen. The shape of the pen
that will hold the most chickens inside will be

[square] [circular] [either, for both provide the same area]



Conceptual Physics Practice Page Answers Solids

RJ Shavelson



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