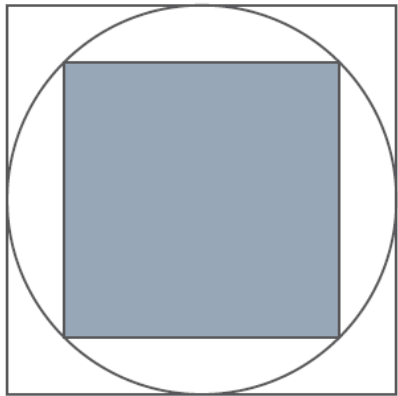


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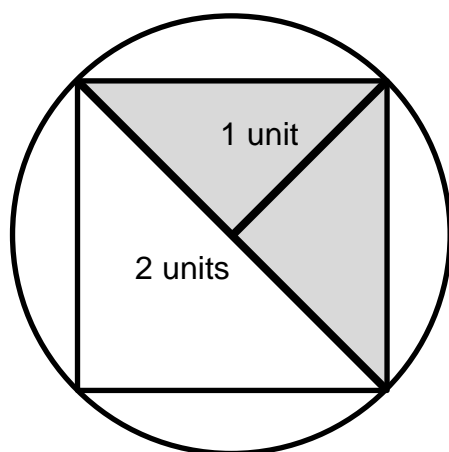
What fraction of the large square is shaded?



Let the side of the outside square be 2 units. The area of this square is therefore 4 square units.

The diameter of the circle is the same as the side of the square i.e. 2 units. The radius of the circle is therefore 1 unit.

We can use these two measurements from the circle (diameter and radius) to find the area of the inside square:



The area of the shaded triangle in the diagram above is $\frac{1}{2} \times 2 \times 1 = 1$ square unit.

The area of the whole inner square is therefore 2 square units.

The fraction of the original large square that is shaded is therefore $\frac{1}{2}$.