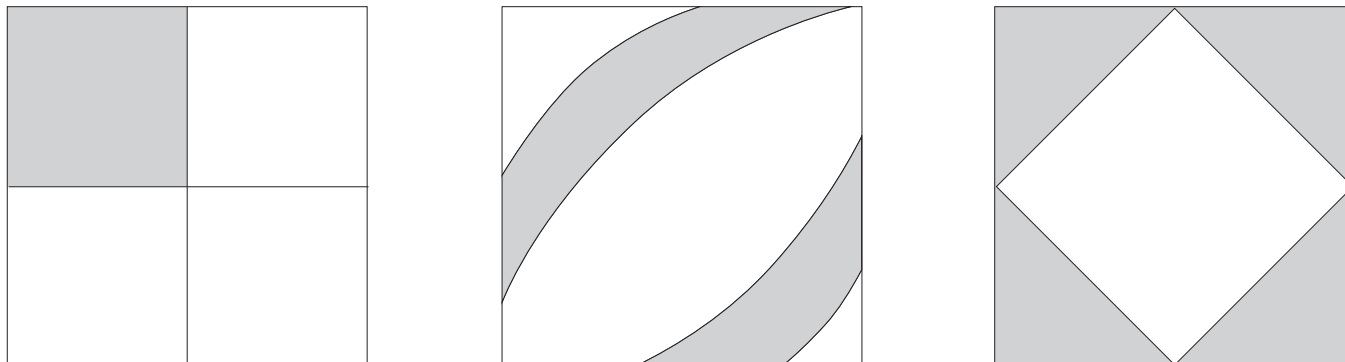


Figure 2.4: Sample Geometric Probability Problem

Have students determine the probability that a point randomly chosen in the square lands in each of the shaded regions.



Students should make use of geometric probability models wherever possible. They use probability to make informed decisions.

S.CP.1 Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes.

1. In your teams, make conjectures about what it means to find the area of the shaded region and how you might determine the shaded area for each square.
2. When ready, in your teams determine the probability that a randomly chosen point in the square lies in the shaded region.
3. In your teams, try multiple approaches and be sure to ask the question, *does our conjecture make sense?*