**ML #4 – Geometric Probability (Probability Unit – Math 7 and Math 7 Plus)**

What do you do when the outcomes are not evenly distributed?

1. Based on the diagram what is the probability of throwing a dart and hitting A? What is the probability of throwing a dart and hitting B? (figure is drawn to scale)

**B**

**A**

**A**

**B**

**B**

**A**

**A**

1. Using the figure below. If Mary chooses a point in the square, what is the probability that the point is not in the circle? P(shaded) = $\frac{Area of shaded region}{Total Area}$

**6**

1. If Mike throws a dart at the target, what is the probability the dart will hit the shaded region?

P(shaded) = $\frac{Area of shaded region}{Total Area}$

**3**

**1**

1. If the hole that is worth $100 has a diameter of 1 foot, what is the approximate probability that you will win the $100 by throwing a ball through the $100 hole?

**Ball Toss Game**

**$25**

**$50**

**$100**

**6ft**

P(shaded) = $\frac{Area of \$100 region}{Total Area}$

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