

Probability Quiz - Makeup

- A jar contains nine red marbles, three white marbles, and nine blue marbles. If one marble is picked at random, what is the probability it was a blue marble?
 - $\frac{9}{12}$
 - $\frac{1}{8}$
 - $\frac{9}{17}$
 - $\frac{5}{9}$
- Marci rolls two dice, one with eight sides and one with twelve sides. She wants to get a number greater than five on each of them. What is the probability that this will happen?
 - $\frac{3}{8} \cdot \frac{7}{12} = \frac{7}{32}$
 - $\frac{1}{8} \cdot \frac{1}{12} = \frac{1}{96}$
 - $\frac{5}{12} \cdot \frac{1}{6} = \frac{5}{72}$
 - $\frac{5}{8} \cdot \frac{5}{12} = \frac{25}{96}$
- Raul dresses up like Santa and brings stuffed animals to Children's Hospital for the patients. His sack has six stuffed bears and five stuffed reindeer. What is the probability that the next two animals he pulls out are both bears?
 - $\frac{6}{11}$
 - $\frac{3}{11}$
 - $\frac{1}{110}$
 - $\frac{7}{110}$
- If $P(A) = .5$ and $P(B) = .3$, what is $P(A \text{ or } B)$? [Hint: You'll need to find $P(A \text{ and } B)$ to find it.]
 - .8
 - .65
 - .95
 - .53
- How many ways can you select a first, second, third, and fourth place winner be selected at a dog show out of nine dogs?
 - 216
 - 24
 - 3024
 - 5040
- Nico has made nine paintings. He is going to display four of them at an art show. If the order doesn't matter, how many ways can Nico select five paintings to show?
 - 759
 - 126
 - 56
 - 3024
- Which scenario represents mutually exclusive results?
 - picking a card: result is a jack or a spade
 - picking a student in the class: result is a boy or has a backpack
 - rolling a six-sided die: result is even or a multiple of three
 - picking a marker from a box: result is blue or red
- Jada is ordering custom car from a dealer. She has the choice of six colors, four specialty packages, and either manual or automatic transmission. If she is picking one color, one specialty package, and one transmission type, how many different ways could she order the car?
 - 48
 - 180
 - 42
 - 30