

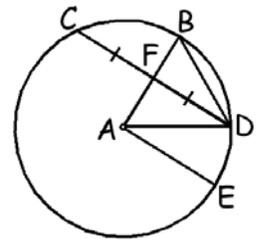
Workout AZ

1. _____ % For the 2010 NFL Season, I predict that Peyton Manning will throw the football 420 times. I predict that he will complete 350 passes. What is my prediction for Peyton Manning's completion percent for the 2010 football season? Express your answer to the nearest percent.

2. _____ Bobby has 5 coins. If he flips more heads than tails, he will spend the weekend at the movies. What is the probability of Bobby spending the weekend at the movies? Express the answer as a common fraction.



3. _____ degrees In circle A, radius AB bisects CD. Lines CD and AE are parallel. The measure of angle DAE is 32 degrees? What is the measure of angle BDF?



4. _____ MSU has an excellent basketball team, football team, and math team. A basketball ticket costs \$15, football tickets cost \$20, and tickets to math matches cost \$5. Euclid bought 12 tickets in all and spent \$140. He went to twice as many football games as basketball games. How many math matches did he attend?

5. _____ Dr. Pepper wants to package 173 jalapenos. There are 7-jalapeno packages and 3-jalapeno packages. What is the least number of packages that he will need if there are to be no jalapenos left unpackaged and each package must be full?

6. _____ What is the probability of rolling a prime sum with a pair of standard dice?

7. _____ At Qing Cheng Chinese restaurant, a meal consists of one meat, two different vegetables, and one grain. There are 10 meats, 15 vegetables, and 2 grains available. How many different meal selections are possible?

8. _____ Two airplanes take off at the same time from Atlanta. One heads due west to San Francisco, and one heads due east to Casablanca. The plane to San Francisco flies 568 miles per hour, and the plane to Casablanca flies 528 miles per hour. How far apart will the planes be in 3 hours? (Negate the curvature of Earth's surface.)



9. _____ Today in Mathport there is an 80% chance of a tornado and a 78% chance of a blizzard. What is the probability that there will be neither a blizzard nor a tornado today in Mathport? Express your answer as a percent rounded to the nearest tenth.

10. _____ What is the value of A in the following equation: $ABC + CAB = 1,215$?

$$\begin{array}{r} ABC \\ + CAB \\ \hline 1215 \end{array}$$