

Name_____Period_____

PROBABILITY AND ODDS WORKSHEET

For #1 - 2, find the probability of each event.

1. A twelve-sided dice is rolled. $P(\text{composite \#}) =$ _____
2. There are 30 students in a class: 16 boys and 14 girls. What is the probability that a 1 boy will be chosen at random?
 $P(\text{boy}) =$ _____

For #3 - 4, find the odds FOR each event.

3. You roll a fair six-sided number cube. Odds for 5 = _____
4. You don't really feel like reading during AR so you open your book to a random page to make your teacher think you're reading. The book you have has 541 pages.
Odds for opening to a page in the 100's = _____

For #5 - 6, find the odds AGAINST each event.

5. The following marbles are in a bag: 5 red, 2 orange, 3 yellow, 4 green, 5 blue, and 5 purple. You reach in and pull one marble out at random.
Odds against a primary color = _____
6. The probability that you will win a competition is $\frac{4}{7}$.
Odds against winning = _____