

Honors Statistics

3.2: Odds

1. What is the probability of rolling a 1 or 2 using a 6-sided number cube?
2. From a group of 125 boys and 150 girls, what are the odds of randomly selecting a girl?
3. If the **probability** of winning a prize is $\frac{1}{6}$, what are the odds of winning that prize?
4. If the odds of winning a prize are 2:3, what are the odds of losing the prize?
5. If the **probability** of winning a prize is $\frac{5}{12}$, what are the odds of winning that prize?

Find the odds of each outcome if a computer randomly chooses a letter from the word "Alabama"

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|-----------------------|------------------------|
| 6. the letter "a" | 10. a vowel |
| 7. the letter "b" | 11. not a vowel |
| 8. a consonant | 12. not the letter "m" |
| 9. not the letter "g" | |

Find the odds of each outcome if a person is randomly selecting a coin from a dish that contains 16 dimes, 6 nickels, and 3 quarters.

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| 13. a dime | 14. a quarter | 15. not a nickel |
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Answers

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| 1 | $\frac{1}{3}$ |
| 2 | 6:5 |
| 3 | 1:5 |
| 4 | 3:2 |
| 5 | 5:7 |
| 6 | 4:3 |
| 7 | 1:6 |
| 8 | 3:4 |
| 9 | 7:0 |
| 10 | 4:3 |
| 11 | 3:4 |
| 12 | 6:1 |
| 13 | 16:9 |
| 14 | 3:22 |
| 15 | 19:6 |