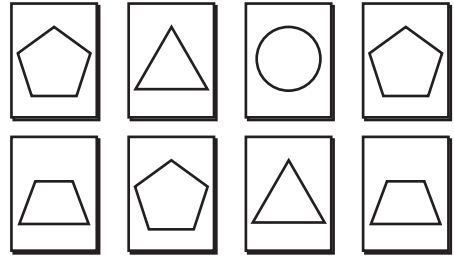


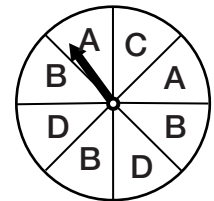
Probability Concepts

You turn the cards to the right face down and shuffle. Then you turn one card face up. Tell which event is more likely. If necessary, describe an event as impossible or certain.



1. circle or trapezoid _____
2. triangle or pentagon _____
3. parallelogram or trapezoid _____
4. triangle or circle _____
5. square or any other shape _____
6. circle or octagon _____

You spin once on the spinner at the right. Tell which event is *less* likely. If necessary, describe an event as impossible or certain.



- | | |
|--------------------------------|--------------------------------|
| 7. <i>C</i> or <i>D</i> _____ | 8. <i>A</i> or <i>B</i> _____ |
| 9. <i>A</i> or <i>E</i> _____ | 10. <i>C</i> or <i>B</i> _____ |
| 11. <i>C</i> or <i>K</i> _____ | 12. <i>C</i> or <i>A</i> _____ |
| 13. <i>B</i> or <i>F</i> _____ | 14. <i>B</i> or <i>D</i> _____ |

Test Prep

15. A number cube has numbers 1 to 6. What is the probability of tossing a 7?

- | | |
|------------------------|------------------------|
| A 0 | C $\frac{1}{4}$ |
| B $\frac{1}{6}$ | D 1 |

16. Ben and Cassie each have a bag of snap cubes. Ben's bag has 3 blue, 3 red, 4 purple, 2 yellow, and 2 green cubes. Cassie's bag has 4 blue, 3 red, 3 purple, 2 yellow, and 2 green cubes. They take turns drawing cubes out of their bags until one of them draws a purple cube. Whoever draws a purple cube first wins the game. Is the game fair? Explain.
