

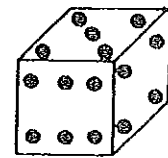
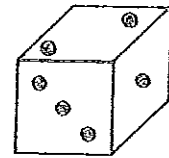
Practice

Answers.

Problem Solving

Complete the sample space below to show all the possible outcomes of rolling a blue die and a black die. Then use the sample space to solve each problem. Write each probability in simplest form.

		Blue Die					
		1	2	3	4	5	6
Black Die	1	1,1	2,1	3,1	4,1	5,1	6,1
	2	1,2	2,2	3,2	4,2	5,2	6,2
	3	1,3	2,3	3,3	4,3	5,3	6,3
	4	1,4	2,4	3,4	4,4	5,4	6,4
	5	1,5	2,5	3,5	4,5	5,5	6,5
	6	1,6	2,6	3,6	4,6	5,6	6,6



1. What is the probability of rolling a 1 and a 3? $\frac{2}{36} = \frac{1}{18} = .0555$

The probability is 5.56%

2. What is the probability of rolling 4's on both dice? $\frac{1}{36} = .0277$

The probability is 2.78%

3. What is the probability of rolling 4,5 or 5,4? $\frac{2}{36} = \frac{1}{18} = .0555$

The probability is 5.56%

4. What is the probability of rolling two dice that total 10? $\frac{3}{36} = \frac{1}{12} = .0833$

The probability is 8.33%

5. What is the probability of rolling two dice that total 20? \emptyset

The probability is 0%

6. What is the probability of rolling two dice that total less than 13? $\frac{36}{36}$

The probability is 100%