

## Probability Review Worksheet

5. A computer randomly selects a digit from 0 to 9. What is the probability that the digit selected will be greater than 2?
6. A box contains 4 blue marbles, 5 yellow marbles, and 3 green marbles.
- What is  $P(\text{green})$ ?
  - What is  $P(\text{not green})$ ?
  - What is  $P(\text{red})$ ?
  - What is  $P(\text{yellow then blue})$  if you replace the first marble after selecting it?
  - What is  $P(\text{yellow then blue})$  if you don't replace the first marble after selecting it?
7. If  $P(\text{rain}) = 10\%$  and  $P(\text{homework}) = 80\%$  and they are independent, what is the probability that you will have homework and it is rainy?
1. Two fair tetrahedral (four-sided) dice are rolled. Each is numbered 1 to 4. What is the probability that the sum of the numbers on the bottom faces is greater than 6?
2. A circular dartboard has a diameter of 18 inches. The bull's eye of the dartboard is a circle with a diameter of 3 inches. If a thrown dart hits randomly, what is the probability that it will land in the bull's eye? Recall that the area of a circle is given by  $A = \pi r^2$ .
3. You are given a chart of students' birthdays per month. For this class, if someone is chosen at random, what is the probability that his or her birthday occurs in the last 4 months of the year?

	J	F	M	A	M	J	J	A	S	O	N	D
Boys	0	1	2	0	4	2	1	0	0	2	1	1
Girls	1	2	0	3	2	2	0	1	2	1	2	0