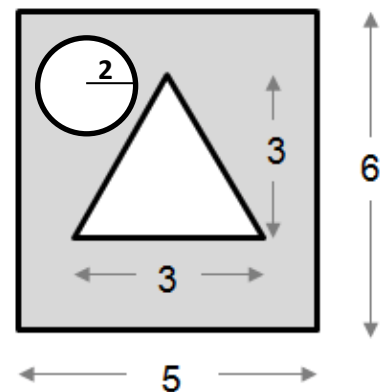


Chapter 14 – 15: **Probability Review**

1. A number cube from 1 to 6 and a coin are tossed. Find the sample space.
2. In how many ways can a 10 question true-false test be answered if every question must be answered?
3. How many 7-digit telephone numbers can be created if the first digit must be 8, the second must be 5, and the third must be 2 or 3? Digits can be repeated more than once.
4. In how many ways can 4 of 7 different kinds of trees be planted along a road if you only have one of each type of tree?
5. A letter is selected at random from those in the word TRIANGLE. Find the probability that it is a vowel.
6. Three coins are tossed. Find the probability that exactly 2 land heads up.

7. A single marble is drawn from a bag containing 3 red, 5 white, and 2 blue marbles. Find the probability of each event.
- A red or blue marble is drawn.
 - A blue or white marble is drawn.
 - A red, white, or blue marble is drawn.
8. There are 13 red, 12 blue, and 13 yellow crayons in a box. Jeff randomly selects one, returns it to the box, and then randomly selects another. Find the probability of each event.
- The first crayon selected is blue and the second is yellow.
 - Both crayons selected are red.
 - He draws three blues without replacing each crayon.
9. What is the probability that a randomly selected point is in the shaded region?



10. Suppose you've totally forgotten your locker combination. There are 3 numbers in the combination and you're sure each number is different. The numbers on the lock range from 0 to 35. How many attempts could it take to get it right?

11. 100 people at a mall were asked what flavor of ice cream they prefer.

	Vanilla	Chocolate	Strawberry	Other	Total
Men	12	16	8	12	48
Women	10	18	12	12	52
Total	22	34	20	24	100

A person is selected at random from the sample. Find the probability that:

a. A person preferred vanilla.

b. A person is female and preferred chocolate.

c. A person is male given that they prefer any flavor except strawberry.

12. Based on previous basketball games, the probability that Ryan will be chosen to play this weekend is 75%, that Brian will be chosen is 60%, and that Henry will be chosen is 50%.

Find the probability that:

a. Ryan and Henry will be selected but Brian will not.

b. At least one of the three is selected.