

Geometry | LESSON 15-1**Practice Form K**

1. 3; 8; $\frac{3}{8}$
2. $\frac{1}{8}$
3. $\frac{3}{8}$
4. 0.25; 15
5. $\frac{1}{6}$
6. $\frac{1}{6}$
7. $\frac{1}{2}$
8. $\frac{1}{3}$
9. $\frac{1}{6}$
10. $\frac{1}{2}$
11. $\frac{5}{6}$
12. $\frac{5}{6}$
13. a. $\frac{1}{3}$
b. $\frac{1}{4}$
14. $\frac{3}{4}$
15. $\frac{1}{18}$
16. $\frac{17}{18}$
17. $\frac{1}{36}$

18. Answers may vary. An event with a probability of 1 is certain to happen.
19. Your friend confused theoretical probability with experimental probability. The correct theoretical probability is $\frac{1}{2}$ because the coin is equally likely to land on heads or tails.

Geometry | LESSON 15-2

Practice Form K

1. $\frac{1}{2}$
2. $\frac{1}{6}$
3. $\frac{1}{4}$
4. $\frac{2}{3}$
5. $\frac{3}{4}$
6. $\frac{5}{6}$
7. $\frac{1}{3}; \frac{1}{2}$
8. 30, 30; P (in shaded region) = $\frac{5}{18}$
9. $\frac{65}{81}$
10. $\frac{51}{100}$
11. $\frac{8}{15}$
12. $\frac{5}{8}$
13. $\frac{3}{8}$
14. $\frac{1}{2}$
15. $\frac{1}{4}$

16. a. $\frac{2}{75}\pi$

b. $\frac{1}{48}\pi$

c. $\frac{1}{24}\pi$

d. $\frac{1}{96}\pi$

17. $\frac{1}{3}$; the point has an equal chance of being on six congruent segments, so the probability of being on 2 segments is $\frac{2}{6}$, or $\frac{1}{3}$.

18. $\frac{13}{15}$

ANSWER KEY

14. $\frac{3}{4}$
15. $\frac{1}{18}$
16. $\frac{17}{18}$
17. $\frac{1}{36}$
18. Answers may vary. An event with a probability of 1 is certain to happen.
19. Your friend confused theoretical probability with experimental probability. The correct theoretical probability is $\frac{1}{2}$ because the coin is equally likely to land on heads or tails.

Reteaching

1. $\frac{3}{10}$
2. $\frac{1}{5}$
3. $\frac{1}{2}$
4. $\frac{5}{12}$
5. $\frac{1}{4}$
6. $\frac{1}{3}$
7. $\frac{2}{7}$

Think About a Plan

1. as a fraction, decimal, or percent
2. I can use addition to find the number of CDs.
3. The numerator is the number of favorable outcomes of the desired event. The denominator is the number of possible outcomes.
4. Find the total number of CDs in the collection (all types).
5. Count the number of the desired type of CD.
6. $10 + 8 + 5 + 7 = 30$ possible outcomes

ANSWER KEY

7. 5

8. $\frac{5}{30} = \frac{1}{6}$ or about 0.167

9. $1 - \frac{1}{6} = \frac{5}{6}$ or about 0.833