# Pre-Algebra Homework #9 – Answer Key

1) $0.44, 1, \frac{4}{5}, 26\%$

2) 6 years

3) $\frac{1}{6}$   Once out of every eight rolls

4) 8%

5) $\frac{1}{5}$

6) $\frac{4}{13}$

7) $\frac{1}{221}$

8) a. $\frac{1}{3}$   b. $\frac{2}{3}$   c. $\frac{2}{3}$   d. $\frac{1}{2}$

9) $\frac{5}{48}$

10) $\frac{1}{10}$

11) a. $\frac{1}{30}$   b. $\frac{1}{15}$   c. $\frac{1}{10}$   d. $\frac{1}{15}$

12) $\frac{2}{9}$

13) $\frac{25}{144}$

14) a. $\frac{1}{10}$   b. $\frac{9}{50}$   c. $\frac{3}{25}$   d. $\frac{1}{5}$

15) $\frac{11}{120}$

16) a. $\frac{1}{22}$   b. $\frac{5}{22}$   c. $\frac{7}{44}$   d. $\frac{1}{11}$

17) *Answers will vary but must contain or statements, and statements, or both. One possible answer would be to roll a ten-sided die while rolling a nine-sided die at the same time. What would be the probability of rolling a 1, 3, 5, 7, or 9 on the ten-sided die and rolling a 1, 2, 3, 4, 5, 6, or 7 on the nine-sided die at the same time?

18) a. $\dfrac{2}{7}$   b. $\dfrac{6}{7}$   c. $\dfrac{3}{7}$   d. $\dfrac{3}{7}$

19) $\dfrac{1}{20}$

20) *Answers will vary but must contain or statements, and statements, or both. One possible answer would be to flip a fair coin once while, at the same time, rolling a twelve-sided die. What would be the probability of the coin coming up tails and the die rolling a 7 at the same time?