

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. $\frac{1}{11}$

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- 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. $\frac{2}{7}$ b. $\frac{6}{7}$ c. $\frac{3}{7}$ d. $\frac{3}{7}$
- 19) $\frac{1}{20}$
- 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?

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