

NAME: _____ Period: _____

PRACTICE QUIZ - Counting Outcomes and Simple Probability

Find the total number of outcomes for each situation. Show your work.

- 1) Three coins, a 12-sided dice and two 6-sided dice are tossed
- 2) Four coins are tossed
- 3) 5 6-sided dice, and 4 10-sided dice are tossed
- 4) Bob has a blue, purple, white and red shirt and jeans, slacks, and shorts

Use the following information to find the probability of each situation. Write your answers as a simplified fraction. **A jar of jelly beans contains 5 red, 4 purple, 2 pink, and 1 yellow.**

- | | |
|---------------------|----------------------|
| 5) P(red) | 8) P(pink or yellow) |
| 6) P(red or purple) | 9) P(NOT purple) |
| 7) P(NOT red) | |

Show your work to receive extra credit!

ANSWERS:

- 1) **1296 different outcome**
- 2) **16 different outcomes**
- 3) **12,960,000 different outcomes**
- 4) **12 different outfits**
- 5) **$5/12$**
- 6) **$3/4$**
- 7) **$7/12$**
- 8) **$1/4$**
- 9) **$2/3$**