

# Lesson 13 ~ Probability

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

Find each probability for 1 roll of a regular number cube. Write as a fraction in simplest form.

- 1. P(2)
- 2. P(3, 4 or 5)
- 3. P(8)
- 4. P(even number)
- 5. P(number less than 3)
- 6. P(1 through 6)

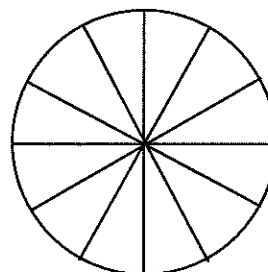
A student is chosen at random from a 7<sup>th</sup> grade math class of 16 girls and 8 boys. Find each probability.

- 7. P(girl)
- 8. P(boy)
- 9. P(not a boy)
- 10. P(boy or girl)
- 11. P(neither boy nor girl)
- 12. P(not a girl)

13. Color the spinner to match the given probabilities.

$$P(\text{yellow}) = \frac{5}{12} \quad P(\text{blue}) = \frac{1}{4}$$

$$P(\text{green}) = \frac{1}{6} \quad P(\text{red}) = \frac{1}{6}$$



14. Mark and Abby played a game which required flipping a coin. Mark won when the coin landed heads and Abby won when the coin landed tails. Below is the table showing their wins.

Person	Mark	Abby
Number of Wins	10	15

- a. Find the experimental probability Mark wins.
  - b. Find the experimental probability Abby wins.
  - c. Find the theoretical probability Mark will get a win on the next flip of the coin.
15. Paul hit 4 homeruns out of 16 pitches at batting practice. Find the experimental probability he will hit a homerun on his next pitch at batting practice.