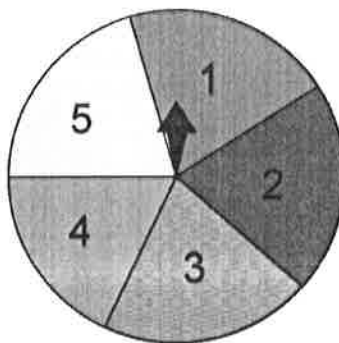


Chapter 13 PRACTICE Test**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- If you roll a six-sided number cube that is numbered from 1 to 6, what is the probability of rolling a number less than 6?
 - $\frac{5}{6}$
 - $\frac{5}{11}$
 - $\frac{2}{3}$
 - $\frac{5}{8}$
- A jar contains 8 quarters, 3 dimes, 7 nickels, and 6 pennies. If a coin is selected at random from the jar, what is the probability of selecting a penny?
 - $\frac{3}{10}$
 - $\frac{1}{4}$
 - $\frac{6}{25}$
 - $\frac{5}{24}$
- Marcos is one of 10 runners competing in the 100-yard dash at a track meet. If each runner is equally likely to win the race, what is the probability that Marcos will **not** win the race?
 - $\frac{1}{10}$
 - $\frac{1}{5}$
 - $\frac{9}{10}$
 - $\frac{4}{5}$

- Linda spun the spinner below 60 times and had an odd number on 35 of those spins. What is the theoretical probability of spinning an odd number? What is Linda's relative frequency of spinning an odd number? Express your answers as fractions.



- theoretical: $\frac{2}{5}$, relative frequency: $\frac{5}{12}$
- theoretical: $\frac{3}{5}$, relative frequency: $\frac{7}{6}$
- theoretical: $\frac{2}{5}$, relative frequency: $\frac{5}{12}$
- theoretical: $\frac{3}{5}$, relative frequency: $\frac{7}{12}$

5. Lisa noticed that out of 27 students entering the building at Willowville Elementary School this morning, 9 of them were carrying a lunch box. If these students are representative of the entire school, how many of the Willowville's 96 students would you expect to have brought a lunch box?

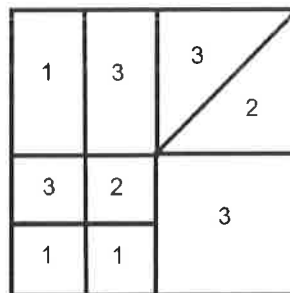
Proportion:

- a. 32 students
 b. 64 students
 c. 24 students
 d. 72 students
6. A bowl of candies contains the following makeup of colors: 1 red, 3 yellow, 5 green, and 4 purple. Leon is selecting a candy at random from this bowl. He does not like the color green.

What is the probability that Leon does NOT select a green candy?

- a. $\frac{8}{13}$
 b. $\frac{10}{13}$
 c. $\frac{5}{13}$
 d. $\frac{9}{13}$

7. A stone is thrown onto the board below. What is the probability that the stone will land in a section labeled 3? Write your answer as a fraction in SIMPLEST FORM.



- a. $\frac{5}{8}$
 b. $\frac{1}{2}$
 c. $\frac{9}{16}$
 d. $\frac{7}{16}$
8. Suppose the theoretical probability of winning a prize at a carnival game is 0.14. Based on this probability, how many **more** customers would you have expected to win a prize?

Carnival Game Results	
Number of Customers	Number of Winners
250	30

- a. 35 more customers
 b. 6 more customers
 c. 5 more customers
 d. 10 more customers