

# 9 Standardized Test Practice

1. A school athletic director asked each athletic team member to name his or her favorite professional sports team. The results are below:

- Columbus Crew: 3
- Detroit Shock: 4
- Florida Marlins: 20
- Florida Panthers: 8
- Jacksonville Jaguars: 26
- Miami Dolphins: 22
- Miami Heat: 15
- New York Buzz: 5
- Orlando Magic: 18
- Pensacola Power: 7
- Tampa Bay Buccaneers: 17
- Tampa Bay Lightning: 12
- Tampa Bay Rays: 28
- Other: 6

One athletic team member is picked at random. What is the likelihood that this team member's favorite professional sports team is *not* located in Florida?

- A. certain  
 B. likely, but not certain  
 C. unlikely, but not impossible  
 D. impossible

2. Trapezoid  $KLMN$  is graphed in the coordinate plane shown.

Rotate trapezoid  $KLMN$   $90^\circ$  clockwise about the origin. What are the coordinates of point  $M'$ , the image of point  $M$  after the rotation?

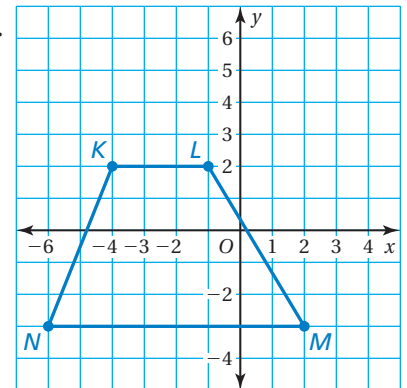
- F.  $(-3, -2)$   
 G.  $(-2, -3)$   
 H.  $(-2, 3)$   
 I.  $(3, 2)$

## Test-Taking Strategy Use Intelligent Guessing

What's the probability of drawing 1 hyena out of a bag with 2 hyenas and 3 mice?  
 (A) -10% (B) 40% (C) 60% (D) 500%



"You know it can't be -10% or 500%. So, you can **intelligently guess** between 40% and 60%."



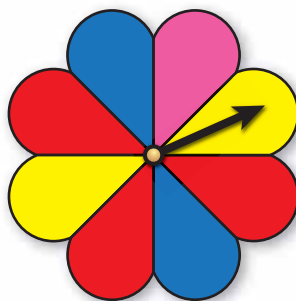
3. Each student in your class voted for his or her favorite day of the week. Their votes are shown below:

- Sunday: 6
- Friday: 8
- Saturday: 10
- Other day: 6

A student from your class is picked at random. What is the probability that this student's favorite day of the week is Sunday?



8. A spinner is divided into 8 congruent sections, as shown below.



You spin the spinner twice. What is the probability that the arrow will stop in a yellow section both times?

9. For a vacation trip, 4 cousins decided to rent a minivan and share the cost equally. They determined that each cousin would have to pay \$300.

The minivan had 2 unused seats, so 2 additional cousins joined them. If the larger group of cousins now share the cost equally, what would each cousin have to pay?

- A. \$150  
B. \$200  
C. \$300  
D. \$450
10. A travel store has 16 umbrellas in stock. Ten of the umbrellas are black. What percent of the umbrellas are black?
- F. 1.6%  
G. 10%  
H. 58%  
I. 62.5%

11. A professional golfer hit 1125 tee shots, of which 675 landed in the fairway. A statistic called “driving accuracy” is found by using the formula below.



$$\text{driving accuracy} = \frac{\text{number of fairways hit}}{\text{number of tee shots}}$$

*Part A* What was the golfer’s driving accuracy, expressed as a percent? Show your work and explain your reasoning.

*Part B* Based only on your answer to Part A, how many of the golfer’s next 500 tee shots would you expect to land in the fairway? Explain your reasoning.