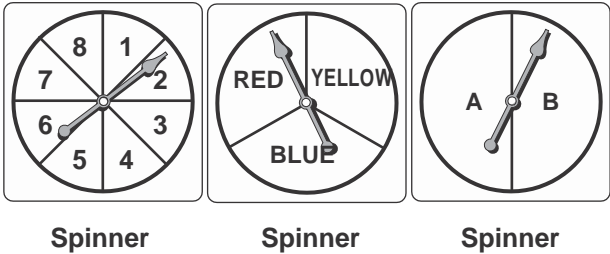


1. Jessica played a game where she spun each of the spinners shown below once. If she spins an even number on Spinner 1, red or yellow on Spinner 2, and a B on Spinner 3, how many possible unique outcomes are there? outcomes are there?

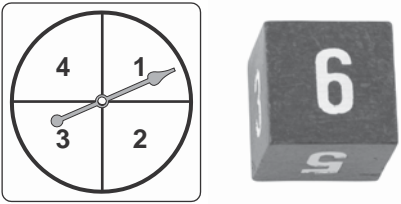


2. What is  $4 \div -$ ?

3. The students in Mrs. Martin's class sell items to raise money for field trips each year. They took a survey to determine which items to sell to other students. The results of the survey are shown in the table. Based on the survey results, what is the probability that a student, selected at random, would buy a drink?

Item	Number of Votes
rings	62
bracelets	27
earrings	21
trading cards	49
snacks	111
small toys	30
drinks	100

4. Stacy has a spinner and a number cube similar to the ones below. After spinning and rolling the number cube, she will add the two numbers.

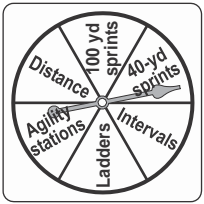


What is the probability that the sum of the numbers from the spinner and number cube will be 3 or 4?

5. The table shows the total distance traveled by a boat traveling at a constant rate of speed. Based on this information, what will be the distance traveled in miles after 8 hours?

Time (h)	Distance (mi)
2	90
2.5	112.5
3	135
4	180

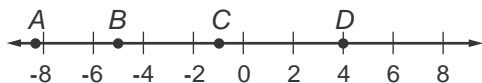
6. Coach Castillo wanted his team to do a variety of running exercises for practice. To make it more interesting, he used the spinner below to determine which running exercise the team would perform.



What is the theoretical probability of landing on 40-yard sprints?

7. Douglas paid \$21 for a pair of jeans at the mall. They were on sale for 20% off. What was the original price before the discount?

8. Which point has a coordinate with the greatest absolute value?



9. A cell phone company charges \$35 a month plus \$0.30 per text message. Write an expression that could be used to find the cost for one month of service with  $b$  text messages?

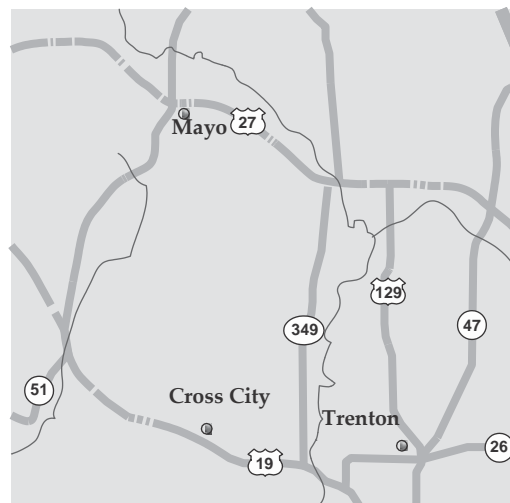
10. Corri needs to get milk (M), eggs (E), bread (B), and cereal (C) at the store. Since the bread is close to the cereal, Corri always picks up the cereal right after getting bread.

List all of the different combinations of ways she can pick up the items she needs. Use the first letter of each item in your list (M, E, B, C).

11. Sierra has 11.5 yards of fabric. She will use 20% of the fabric to make a flag. How many yards of fabric will she use?

12. Juan rolled a number cube labeled one through six four times. Each time, the number 3 appeared. If Juan rolls the number cube one more time, what is the probability that 3 will appear?

13. Molly will travel from Trenton to Mayo by car. Suppose she leaves Trenton on one of three routes: 47 North, 129 North, or 26 West, and arrives in Mayo via either 51 North or 27 West. She does not retrace her steps.



**Part A** Based on the map, how many different routes could Molly take for her journey? Create a table, list, or tree diagram to show the possibilities.

**Part B** If Molly chooses one route at random, what is the probability she will drive on US 27?