

Chapter 11 Review

Name: _____

1. Draw a picture of each turn.

Draw a curved arrow to show the direction of the turn. The vertex of the angle and one side have already been drawn for you.

a. $\frac{3}{4}$ turn clockwise



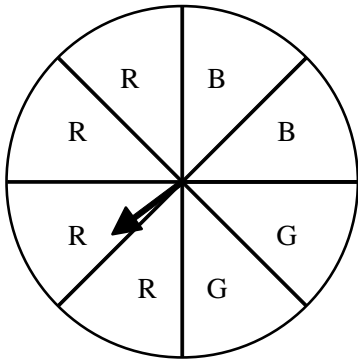
b. $\frac{1}{4}$ turn counterclockwise



2. Use words to write 245,224 and 919,625. Which number is greater?
3. Which number is smaller? 49.03 or 49.1
4. Raquel has \$2. Does Raquel have enough to buy 3 folders for \$0.69 each?

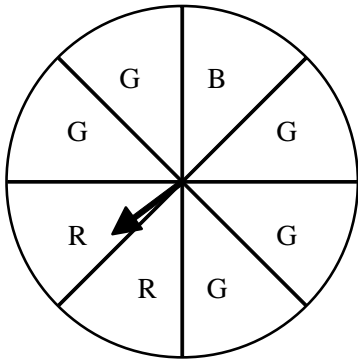
5. *How much are*
7 [30s]?
70 [30s]?
700 [30s]?
6. *Adrienne collects hats of 5 different colors. She has 3 hats of each color. How many hats does she have?*
7. *What number is $\frac{3}{4}$ of 4?*
8. *Janet had 30 soccer cards. She lost $\frac{1}{6}$ of them. How many soccer cards did Janet have left?*
9. *Write fifty-three and forty-seven hundredths in standard form. Underline the tens place, circle the ones place, and draw an X through the hundredths place.*
10. *Which describes the probability that a student's phone number has at least 7 digits?*
[A] Sure [B] Likely [C] 50/50 [D] Unlikely [E] Impossible

11. Which of the statements is true for the spinner below?



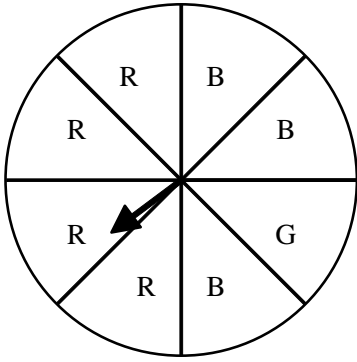
- [A] You will get B about $\frac{1}{2}$ of the time.
- [B] You have the same chance of getting G as B.
- [C] You are two times as likely to get G as R.
- [D] You will get G about $\frac{3}{8}$ of the time.

12.



- a. What fraction of the spinner has the letter B?
- b. What fraction of the spinner has the letter R?

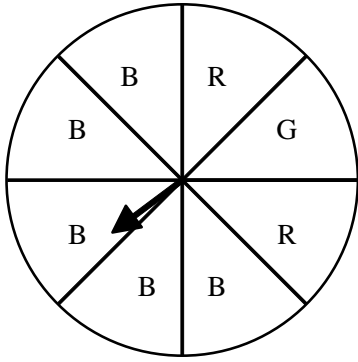
13.



In the first column, predict what you will get if you spin the spinner 8 times. After predicting, take a paper clip and actually spin 8 times. Record your results in the second column of the table below.

| Letter | Predicted Results for 8 Spins | Actual Results for 8 Spins |
|---------------|--|---------------------------------------|
| B | | |
| G | | |
| R | | |

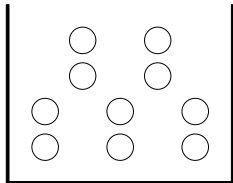
14.



In the first column, Baltasar predicted what he would get if he spun the spinner 8 times. After predicting, Baltasar spun the spinner 8 times and recorded his results in the second column. Explain why Baltasar's actual results are different from his predictions.

| Letter | Predicted Results for 8 Spins | Actual Results for 8 Spins |
|--------|-------------------------------|----------------------------|
| B | 5 | 3 |
| G | 1 | 4 |
| R | 2 | 1 |

15. *There are 10 marbles in the box. The marbles may be black or white. Based on the results of the draws, decide how many marbles of each kind are in the box. Shade the circles in the box to match your decision.*

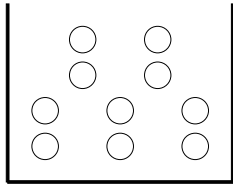


From 100 random draws you get:

a black marble ● 79 times

a white marble ○ 21 times

16. There are 10 marbles in the box. The marbles may be black or white. Based on the results of the draws, decide how many marbles of each kind are in the box. Shade the circles in the box to match your decision.



From 50 random draws you get:

a black marble ● 31 times

a white marble ○ 19 times

17. *Play Spinning to Win (Small-group activity), Lesson 11.10*

FOR THE TEACHER:

Materials:

- Photocopies of Math Masters, page 182, “Spinning to Win,” one for each group
- Paper clips (to use as spinners)-preferably large (2 inches), one for each group
- 40 pennies or other counters, one set for each group
- Paper for tally charts and to explain game strategies, one for each student

FOR THE STUDENT:

Directions:

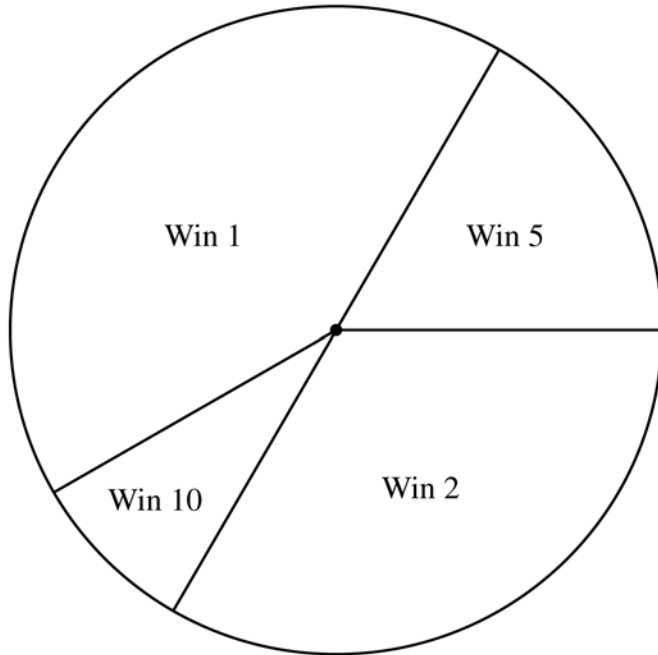
You can play this game with 2 to 4 players.

1. The object is to collect the most counters in 12 spins.
2. For each game played, draw a tally chart like the one below and label the game number.

| | Win 1 | Win 2 | Win 5 | Win 10 |
|------------|-------|-------|-------|--------|
| Game _____ | | | | |

3. Each player claims one section of the spinner—1, 2, 5, or 10. Sections must be different.

(17.)



4. *Players take turns spinning the spinner for a total of 12 spins.*
5. *For each spin: If the spinner lands on a player's number, the player takes that number of counters. Make a tally mark in the table in the corresponding column to keep track of the spins.*
6. *The winner is the player with the most counters after 12 spins.*
7. *After you have played several rounds, write a short report about your winning strategy. Explain which number you think is best to pick and why.*

18. Play The Block-Drawing Game (Partner activity), Lesson 11.10

FOR THE TEACHER:

Materials:

- Paper bag, one for each pair
- 7 blocks (all the same size and shape) in 2 or 3 different colors, one set for each pair

FOR THE STUDENT:

Directions:

1. Choose one player to be the “Director.” The other player is the “Predictor.”
2. The Director secretly puts 3, 4, or 5 blocks (not all the same color) into a paper bag. The Director tells the Predictor how many blocks are in the bag, but not their colors.
3. The object of the game is for the Predictor to guess how many blocks of each color are in the bag.
4. The Director randomly takes one block out of the bag at a time, shows it, and replaces it.
5. After each draw, the Predictor records the color and keeps a tally in the table.
6. When the Predictor thinks he or she knows the colors of the blocks and the number of blocks of each color, write the prediction below the tally chart.
7. The Director then shows the blocks. The Predictor writes the actual colors of the blocks and the number of blocks of each color below the prediction.
8. The players switch roles and play again.

Color and Tally Chart

| Color | Tally |
|--------------|--------------|
| | |
| | |
| | |

Prediction: _____

Actual: _____

19. Calculate Travel Times (Independent activity), Lesson 11.10

FOR THE TEACHER:

Materials:

- *Blank paper or photocopies of Math Masters, page 23, “A Number Story,” two for each student*
- *Student Reference Books*

FOR THE STUDENT:

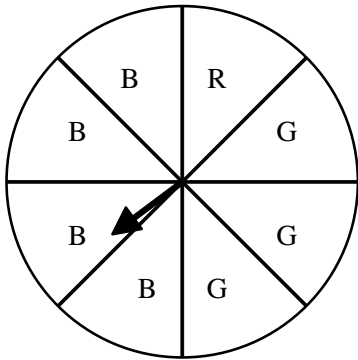
Directions:

1. *Open your Student Reference Book to the Railroad Timetable and Airline Schedule on page 267.*
2. *Use the Train Schedule to write an elapsed-time number story.*
3. *Solve the problem. Explain your strategy for solving the problem.*
4. *Now use the Airline Schedule to write an elapsed-time number story.*
5. *Solve the problem. Explain your strategy for solving the problem.*

20. Which describes the probability that a card will land face up?

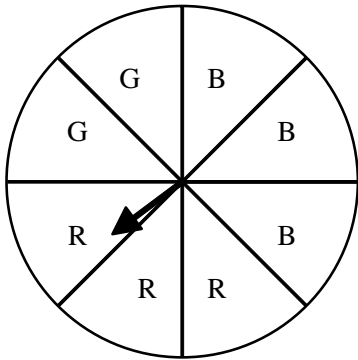
- [A] Sure [B] Likely [C] 50/50 [D] Unlikely [E] Impossible

21. Which of the statements is true for the spinner below?



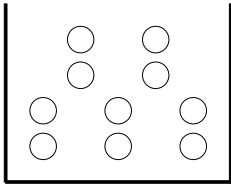
- [A] You will get G about $\frac{3}{8}$ of the time.
- [B] You will get R about $\frac{1}{4}$ of the time.
- [C] You have the same chance of getting G as B.
- [D] You are two times as likely to get G as R.

22.



- a. What fraction of the spinner has the letter G?
- b. What fraction of the spinner has the letter B?

23. There are 10 marbles in the box. The marbles may be black or white. Based on the results of the draws, decide how many marbles of each kind are in the box. Shade the circles in the box to match your decision.

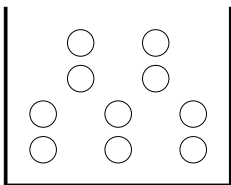


From 100 random draws you get:

a black marble ● 12 times

a white marble ○ 88 times

24. There are 10 marbles in the box. The marbles may be black or white. Based on the results of the draws, decide how many marbles of each kind are in the box. Shade the circles in the box to match your decision.

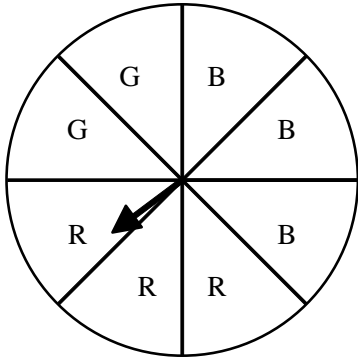


From 50 random draws you get:

a black marble ● 43 times

a white marble ○ 7 times

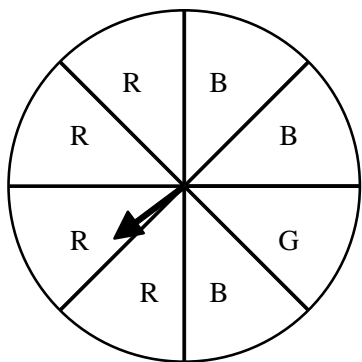
25.



In the first column, predict what you will get if you spin the spinner 16 times. After predicting, take a paper clip and actually spin 16 times. Record your results in the second column of the table below.

| Letter | Predicted Results for 16 Spins | Actual Results for 16 Spins |
|---------------|---|--|
| B | | |
| G | | |
| R | | |

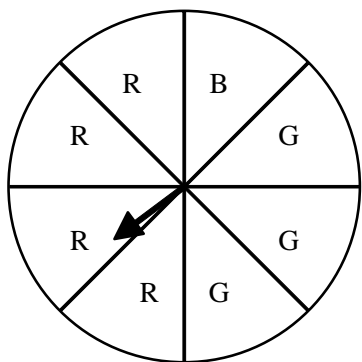
26.



In the first column, Yolanda predicted what she would get if she spun the spinner 16 times. After predicting, Yolanda spun the spinner 16 times and recorded her results in the second column. Explain why Yolanda's actual results are different from her predictions.

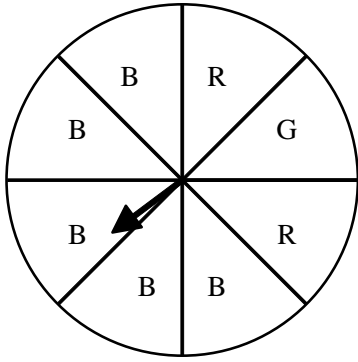
| Letter | Predicted Results for 16 Spins | Actual Results for 16 Spins |
|--------|--------------------------------|-----------------------------|
| B | 6 | 5 |
| G | 2 | 7 |
| R | 8 | 4 |

27. Which of the statements is true for the spinner below?



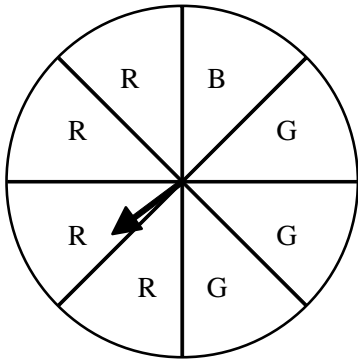
- [A] You will get G about $\frac{1}{4}$ of the time.
- [B] You will get R about $\frac{1}{2}$ of the time.
- [C] You have the same chance of getting G as R.
- [D] You are two times as likely to get G as B.

28.



- a. What fraction of the spinner has the letter R?
- b. What fraction of the spinner has the letter G?

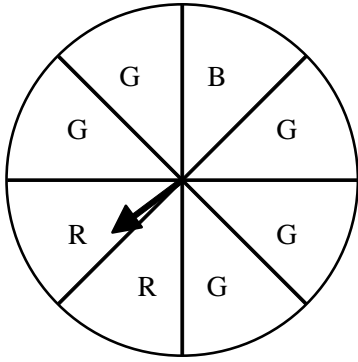
29.



In the first column, predict what you will get if you spin the spinner 8 times. After predicting, take a paper clip and actually spin 8 times. Record your results in the second column of the table below.

| Letter | Predicted Results for 8 Spins | Actual Results for 8 Spins |
|--------|----------------------------------|-------------------------------|
| B | | |
| G | | |
| R | | |

30.



In the first column, Clara predicted what she would get if she spun the spinner 16 times. After predicting, Clara spun the spinner 16 times and recorded her results in the second column. Explain why Clara's actual results are different from her predictions.

| Letter | Predicted Results for 16 Spins | Actual Results for 16 Spins |
|---------------|---|--|
| B | 2 | 3 |
| G | 10 | 5 |
| R | 4 | 8 |