

Certain and Impossible

Vocabulary

Fill in the blank with the correct word.

event

certain

impossible

1. An event is _____ if it will never happen.

2. An _____ is something that happens.

3. An event is _____ if it will always happen.

Tell whether each event is *certain* or *impossible*.

4. Pencils will fall from the sky.

5. Winter in Alaska is cold.

6. You will walk to the moon tonight.

7. Putting your hand in boiling water will burn you.

For 8–9, use the numbered tile. Tell whether each event is *certain* or *impossible*.

1	3	3
1	5	7
3	5	7

8. dropping a coin on an odd number _____

9. dropping a coin on a number greater than 9 _____

Mixed Review

Find the sum or the difference.

10.
$$\begin{array}{r} 75 \\ +39 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 94 \\ +28 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 19 \\ +26 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 47 \\ -38 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 66 \\ -27 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 86 \\ -36 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 943 \\ -218 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 208 \\ -109 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 705 \\ -329 \\ \hline \end{array}$$

Find the product.

19. $9 \times 8 =$ _____

20. $7 \times 6 =$ _____

21. $6 \times 4 =$ _____

22. $5 \times 9 =$ _____

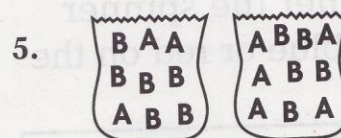
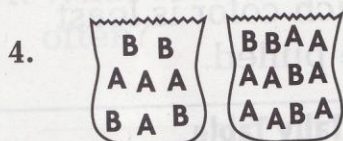
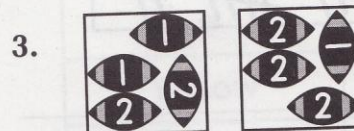
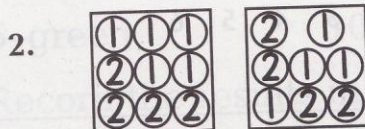
Name _____

Problem Solving Skill**Draw Conclusions****Vocabulary**

Fill in the blank.

1. A game is _____ if every player has an equal chance to win.

Circle the box of balls or bag of letters that is fair. For each unfair box or bag, write the most likely outcome.

**Mixed Review**

Add.

$$\begin{array}{r} 6. \quad 45 \\ +26 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 333 \\ +129 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 700 \\ +219 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 176 \\ +206 \\ \hline \end{array}$$

Round to the nearest thousand.

10. 2,780 _____

11. 1,376 _____

12. 4,900 _____

13. 3,100 _____

Find the missing addend.

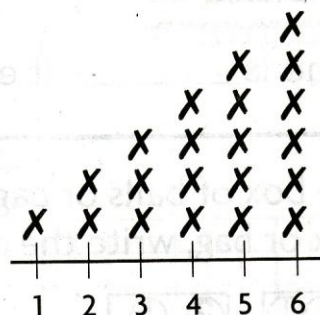
14. $900 + \underline{\hspace{2cm}} = 1,000$ 15. $\underline{\hspace{2cm}} + 779 = 979$ 16. $954 + \underline{\hspace{2cm}} = 1,250$

Predict Outcomes

1. This tally table shows the pulls from a bag of tiles. Predict which color is most likely to be pulled.

Tally Table	
Color	Tallies
black	###
green	////
red	### ### //

2. The line plot below shows the results of rolling a number cube. Predict which number you would most likely roll.



3. This tally table shows the results of using a spinner. Predict whether the spinner will land on blue or red on the next spin.

Tally Table	
Color	Tallies
blue	### ### ### /
red	### ### ### /

4. This tally table shows the pulls from a bag of balls. Predict which color is least likely to be pulled.

Tally Table	
Color	Tallies
blue	### ### ### ////
white	//
purple	### ### ///

Mixed Review

Complete.

5. $35¢ =$ _____ pennies

6. $\$2.00 =$ _____ dimes

7. $75¢ =$ _____ quarters

8. $65¢ =$ _____ nickels

Underline the number that is less.

9. 35 or 54

10. 91 or 88

11. 110 or 100

Experiments

Read the following experiment.

Marsha has a bag filled with 20 tiles. There are 7 blue, 2 green, 4 yellow, and 7 red tiles. She pulls a tile from the bag 10 times. Below is a list of the outcomes of the 10 pulls.

1-red 6-red
2-blue 7-blue
3-red 8-yellow
4-yellow 9-red
5-green 10-blue

Record the results in the tally table.

MARSHA'S EXPERIMENT	
Color	Tally
Red	
Blue	
Yellow	
Green	

Use your tally table to answer 1–3.

1. What color did she pull most often?

2. What color did she pull least often?

3. Why do you think this is so?

Mixed Review

Solve.

4.
$$\begin{array}{r} 33 \\ +17 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 79 \\ +82 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 543 \\ +108 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 412 \\ +344 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 190 \\ +150 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 222 \\ +279 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 987 \\ +213 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 557 \\ +904 \\ \hline \end{array}$$

12. $10 \times 4 =$ _____

13. _____ $\times 9 = 27$

14. $5 \times$ _____ $= 40$

Possible Outcomes

For 1–4, list the possible outcomes of each event.

1. dropping a marker on one of these squares

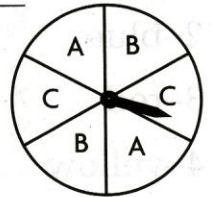
1	11	
3		
5	7	9

2. pulling a number from this bag



3. rolling a cube labeled A–F

4. using this spinner

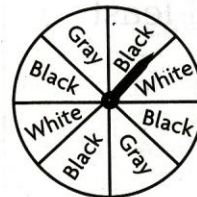


5. Karen has a bag of 4 blue balls, 2 green balls, and 1 red ball. What is the chance that she will pull a green ball from the bag?

6. Martin spins the pointer. What is his chance of spinning a square?



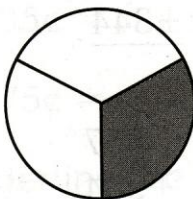
7. Gia used this spinner. The pointer landed on black 1 time, and on white 1 time. Predict the color it will land on next. What is the chance she will spin gray?



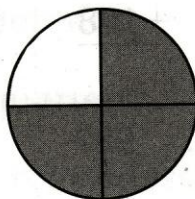
Mixed Review

Write the fraction that names the white part of the spinner.

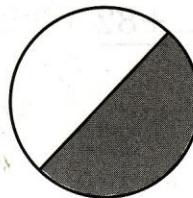
8.



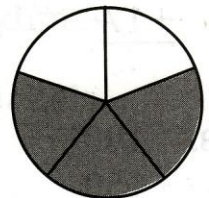
9.



10.



11.



Name _____

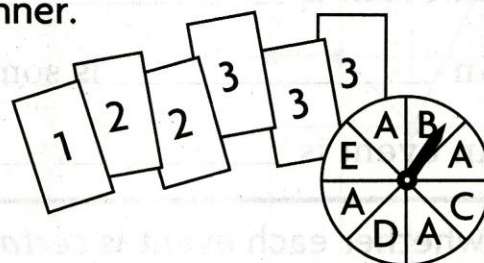
Likely and Unlikely

For 1–2, tell whether each event is *likely* or *unlikely*.

1. having the same birthday as 5 other classmates _____
2. eating a piece of fruit—or some food with fruit in it—today _____

For 3–4, look at the set of cards and spinner.

3. Suppose these cards are mixed up and placed face-down. If you turn over one card, which number are you unlikely to choose? Why?



4. Which letter on the spinner are you likely to spin? Explain.

Mixed Review

5. $9 \overline{)81}$

6. $5 \overline{)10}$

7. $6 \overline{)36}$

8. $7 \overline{)49}$

9. $4 \overline{)40}$

10. $3 \overline{)24}$

11. $7 \overline{)56}$

12. $10 \overline{)20}$

13. $\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$

14. $\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$

15. $\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$

16. $\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$

17. $\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$

18. $\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$

19. $\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$

20. $\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$