

Important Concepts . . .

Preview Review



Mathematics

Grade 6

W3 - Quiz

Important Concepts of Grade 6 Mathematics

W1 - Lesson 1	Basic Facts, Basic Operations, and Integers
W1 - Lesson 2	Place Value, Whole Numbers, Decimals, and Common Fractions
W1 - Lesson 3	Improper Fractions and Mixed Numbers
W1 - Lesson 4	Ratios and Percents
W1 - Lesson 5	Number Operations with Decimals
W1 - Quiz	
W2 - Lesson 1	Factors, Multiples, and Prime Factorizations
W2 - Lesson 2	Metric Measurement
W2 - Lesson 3	Perimeter and Area
W2 - Lesson 4	Surface Area and Volume
W2 - Lesson 5	Working with Angles and Drawing Objects and Shapes
W2 - Quiz	
W3 - Lesson 1	Transformations
W3 - Lesson 2	Bar Graphs, Line Graphs, and Circle Graphs
W3 - Lesson 3	Collecting and Analyzing Data
W3 - Lesson 4	Number Patterns, Magic Squares, and Problem Solving
W3 - Lesson 5	Probability and Outcomes
W3 - Quiz	

Materials Required: A textbook is not needed. This is a stand-alone course.

Mathematics Grade 6
Version 5
Preview/Review W3 - Quiz

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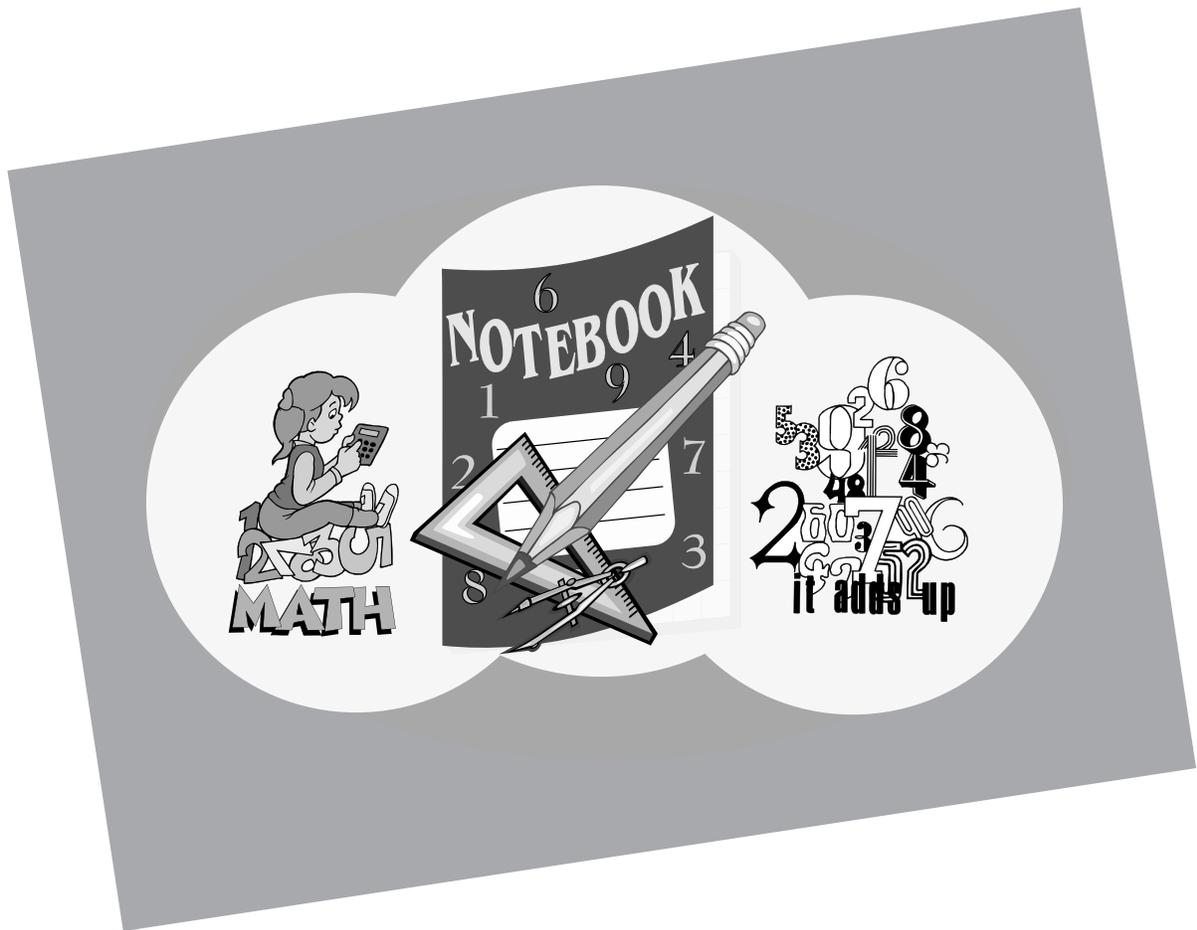
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Preview/Review Concepts for Grade Six Mathematics

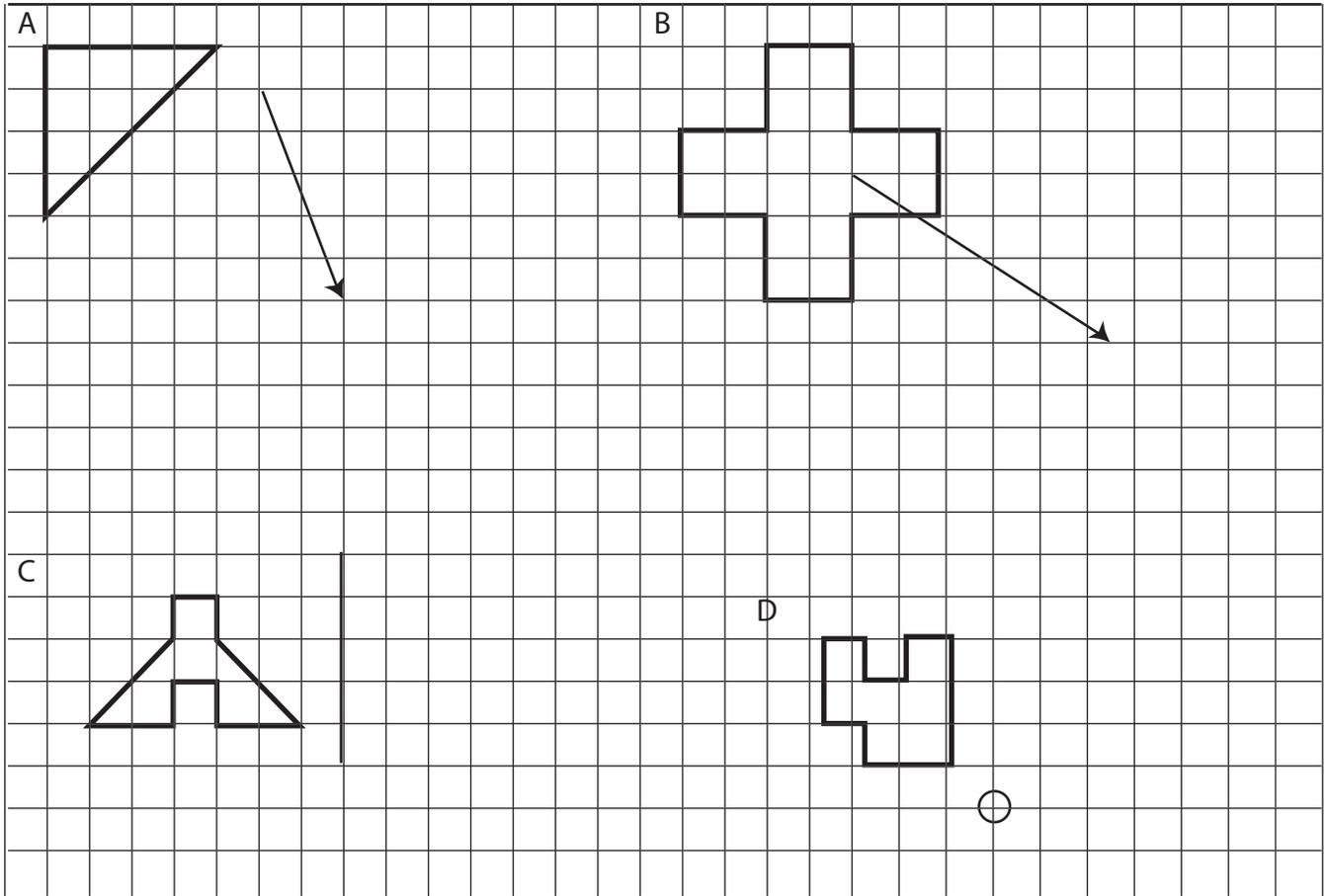


W3 - Quiz

W3 - Quiz

Score:

/50



1. Using the slide arrow shown at **A** above, move the triangle to the correct position.
2. Using the slide arrow shown at **B** above, move the cross to the correct position.
3. At position **C**, use what you know about flips to reposition the object.
4. At position **D**, turn the object one-quarter turn clockwise.

5. Write the correct word from those given below. The transformation that will result in the creation of a mirror image of the original object is

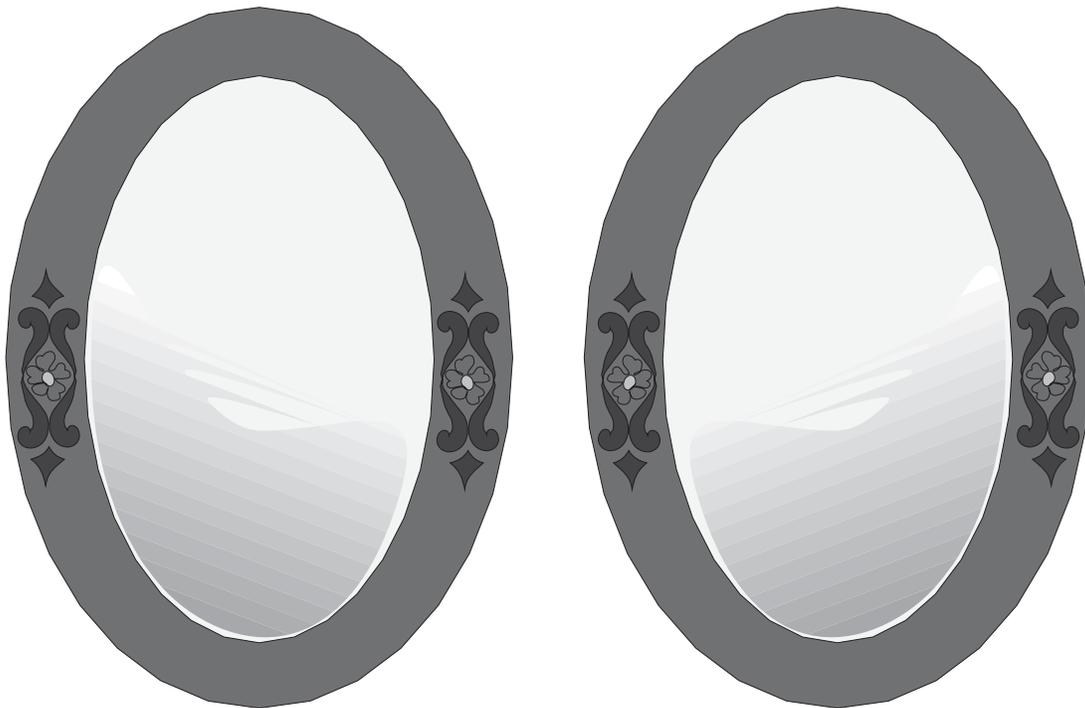
_____ .

rotation

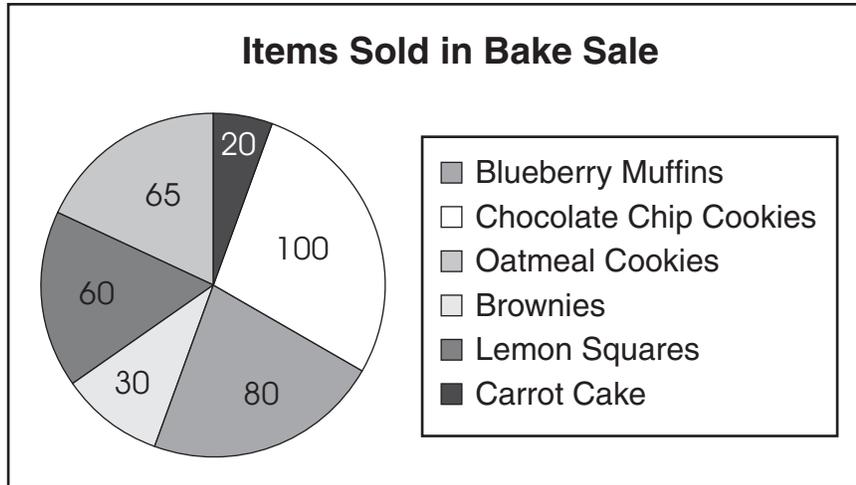
slide

flip

turn



6. Jennifer’s soccer team held a bake sale to raise money to attend an upcoming provincial tournament. The pie graph below shows the distribution of baked goods sold.



a. If a total of 180 chocolate chip and oatmeal cookies were sold, the total number of baked goods sold is likely _____ .

175

270

360

400

b. The item that represents approximately 22% of the total number of baked goods sold is _____ .

brownies

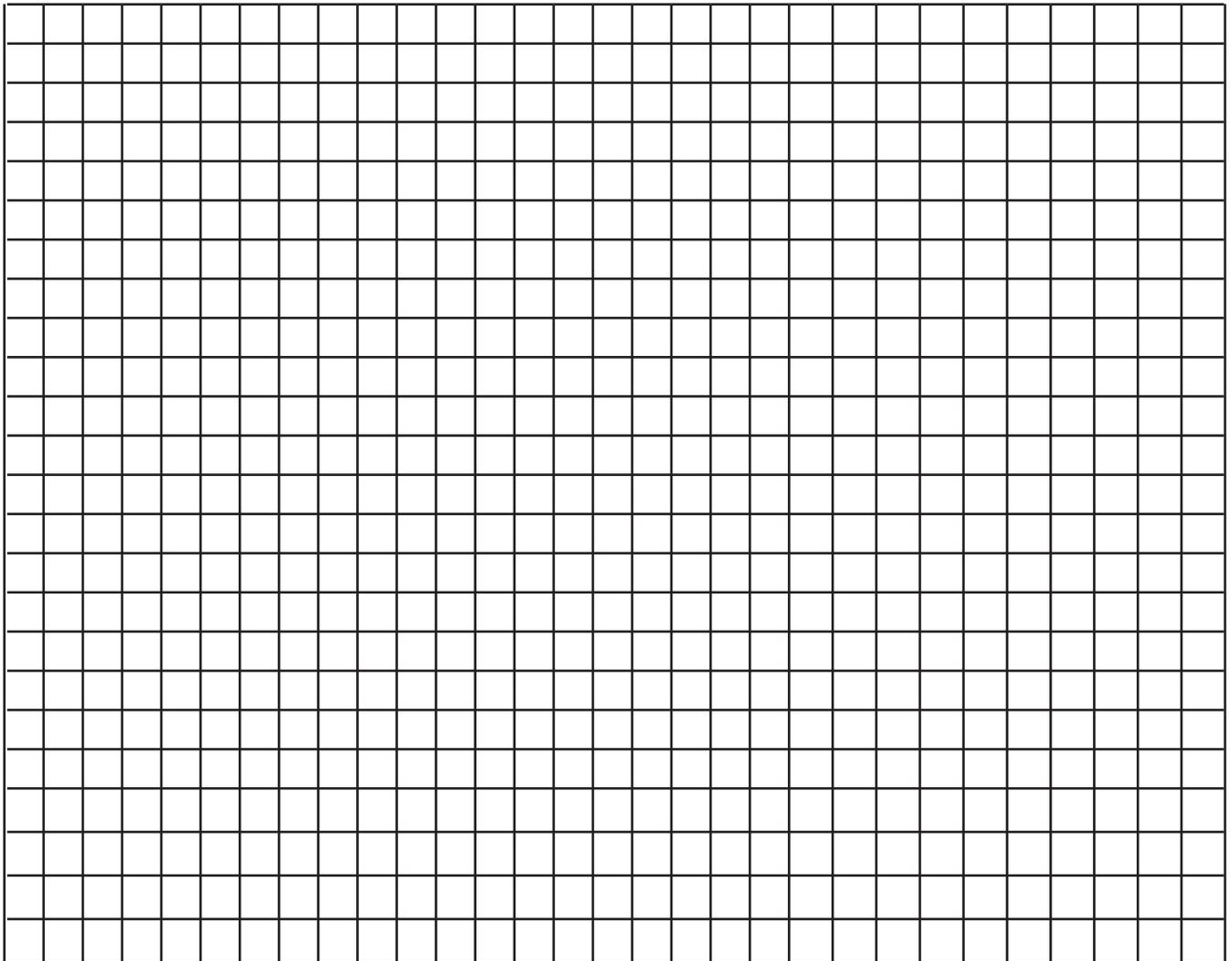
oatmeal cookies

blueberry muffins

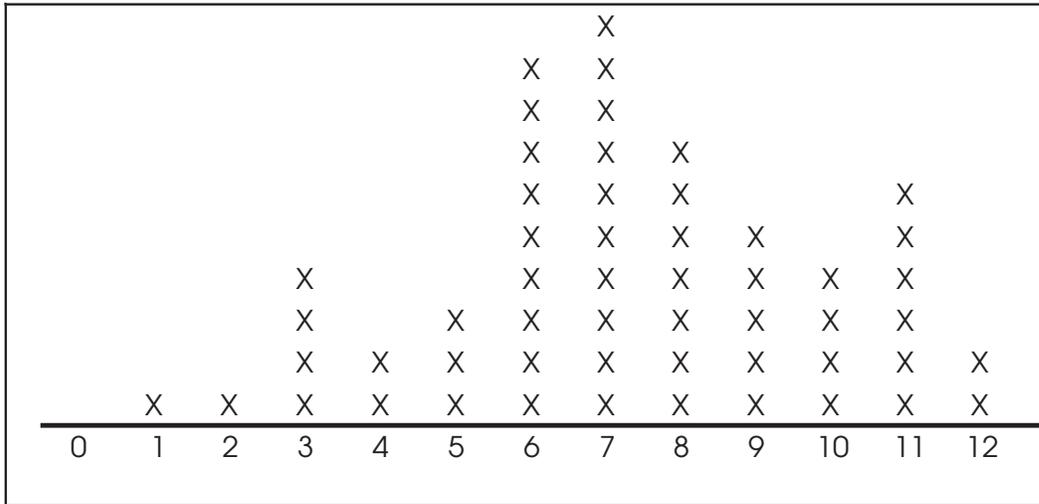
chocolate chip cookies

7. Nancy gathered data to compare the school populations of all the local schools. Using this data, create a bar graph on the grid provided. Your graph must have a title and axis headings.

School	Student Population
MacDonald Elementary	455
James Valley Elementary	120
Peach Lake Junior High	690
Peter Brook Elementary	580
Shimmering Waters Junior High	235
Mountain View High School	945



8. Mrs Charles gave all her science classes a quiz consisting of twelve questions to review the unit they had just covered. The distribution of the number of answers each student got correct is shown on the line plot below.



a. What is a good title for this line plot?

b. How many students wrote this quiz?

c. What is the *mode* for this set of data?

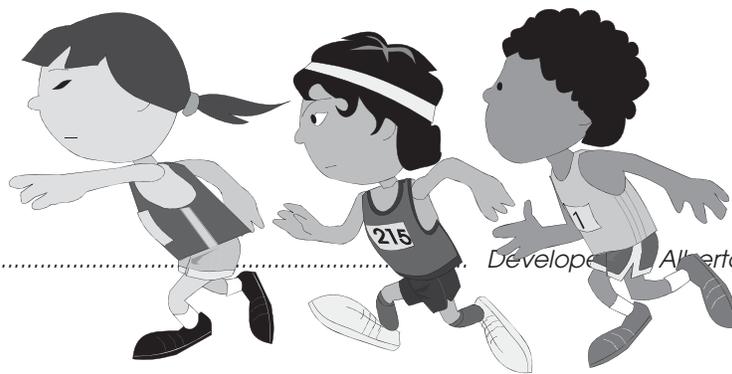
d. What is the *mean* of this set of data?

e. What is the *range* for this line plot?

9. On Saturday, ten people ran in a relay marathon to raise money for a local charity. The distances that each runner ran are listed in the table below.

Runners	Distance Run
Runner 1	4.5 km
Runner 2	1.3 km
Runner 3	5.7 km
Runner 4	7.1 km
Runner 5	4.5 km
Runner 6	3.2 km
Runner 7	7.9 km
Runner 8	2.6 km
Runner 9	4.5 km
Runner 10	2.7 km

- a. What is the *range* of km run? _____
- b. What was the total length of the marathon? _____
- c. What is the *mode* for this set of data? _____
- d. What is the *mean* of this set of data? _____



10. Find the pattern and write the next 3 numbers in the sequence:

50, 49, 47, 44, 40, _____, _____, _____,

11. What is the rule that explains the number pattern that relates the first two columns to the third column?

Column 1	Column 2	Column 3
14	6	16
12	5	14
10	4	12
8	3	10
6	2	8

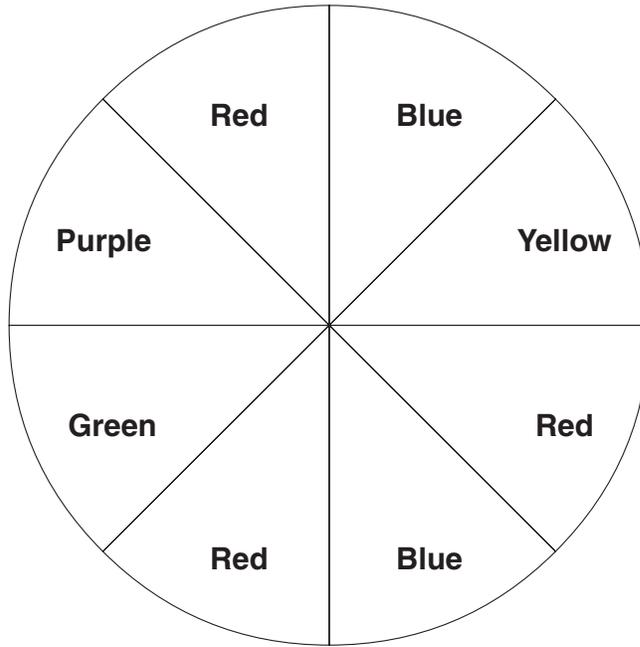
12. Find the correct numbers to make this addition question a true statement.

Find the values for the letters:

A = _____
 B = _____
 C = _____
 D = _____
 E = _____

A 947
 59B
 C4 703
 D2
 27 E85

13. Using the game spinner, determine the probability of spinning different colours.



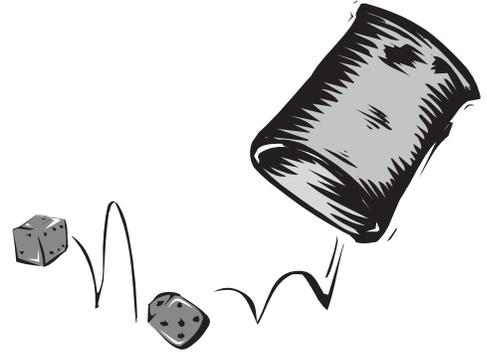
a. What is the probability of the spinner landing on red?

b. What is the probability of the spinner landing on purple?

c. What is the probability of the spinner landing on blue?

d. Is it more probable to land on green or yellow?

14. Matthew has a pair of dice, each numbered from 1 to 6. What is the probability that he will roll two sixes on the first roll? Show your work.



15. Jonathan wants to flip a coin to decide who will bat first in a game of baseball. What is the probability that Jonathan will flip a tails?



