

Goochland County Public Schools

Grade 5 Mathematics

Marking Period 1

- SOL 5.9** The student will identify and describe the diameter, radius, chord, and circumference of a circle.
- SOL 5.11** The student will measure right, acute, obtuse and straight angles.
- SOL 5.12a-b** The student will classify angles and triangles.
- SOL 5.13a-b** The student will define, investigate, and describe plane figures, including combining and subdividing them.
- SOL 5.3a-b** The student will identify and describe the characteristics of prime, composite, even, and odd numbers.
- SOL 5.4** The student will create and solve addition, subtraction, multiplication, and division problems with whole numbers.
- SOL 5.7** The student will evaluate whole number expressions using the order of operations.
- SOL 5.19** The student will investigate and recognize the distributive property of multiplication over addition.

Marking Period 2

- SOL 5.4** (See details in MP 1.)
- SOL 5.1** The student will round decimals through thousandths.
- SOL 5.2a-b** The student will recognize, name, compare, and order commonly used fractions.
- SOL 5.6** The student will solve addition and subtraction problems with fractions and mixed numbers and express answers in simplest form.

Marking Period 3

- SOL 5.5a-b** The student will create and solve addition, subtraction, multiplication, and division problems with decimals.
- SOL 5.8a-e** The student will find and differentiate among perimeter, area, and volume, identify equivalent measurements within the metric system, estimate, measure, and choose the appropriate unit of measure for problems involving the U.S. Customary and Metric systems.
- SOL 5.10** The student will determine an amount of elapsed time in hours and minutes.
- SOL 5.14** The student will make predictions and determine the probability of an outcome by constructing a sample space.
- SOL 5.15** The student will collect, organize, and interpret data in a variety of forms such as stem-and-leaf plots and line graphs.
- SOL 5.16a-d** The student will describe the mean, median, mode, and range of a set of data.

Marking Period 4

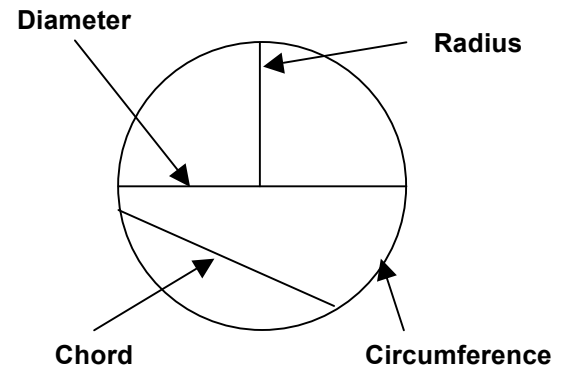
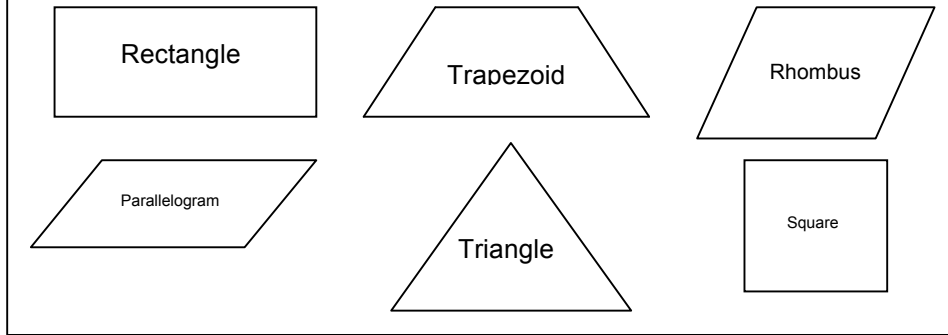
- SOL 5.17** The student will describe the relationship found in a number pattern and express the relationship.
- SOL 5.18a-d** The student will investigate and describe the concept of variable, write an open sentence, model one-step linear equations using addition and subtraction, and create a problem situation based on a given open sentence.

For more information about the Virginia Standards of Learning, please visit
<http://www.doe.virginia.gov/VDOE/Superintendent/Sols/home.shtml>

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Grade 5 Mathematics

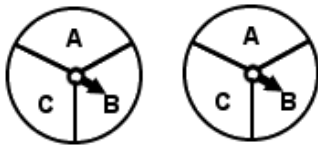
Types of Plane Figures



Type of Graph	Example	When to use?										
Bar Graph		Used to compare data; can be vertical or horizontal.										
Stem and Leaf Plot	<table border="1"> <thead> <tr> <th>Stem</th> <th>Leaf</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>4, 4, 7</td> </tr> <tr> <td>7</td> <td>0, 2, 2, 5, 5, 7</td> </tr> <tr> <td>8</td> <td>2, 4</td> </tr> <tr> <td>9</td> <td>2</td> </tr> </tbody> </table>	Stem	Leaf	6	4, 4, 7	7	0, 2, 2, 5, 5, 7	8	2, 4	9	2	Used to show shape and distribution of data.
Stem	Leaf											
6	4, 4, 7											
7	0, 2, 2, 5, 5, 7											
8	2, 4											
9	2											
Line Graph		Used to show changes over time.										

Fraction	Decimal	Name
	1.0	One whole
	0.5	Half
	0.25	Fourth
	0.2	Fifth
	0.125	Eighth
	0.1	Tenth

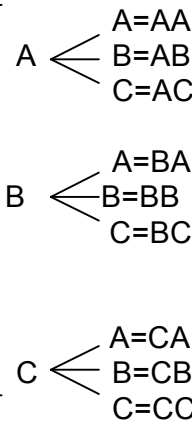
Spinner Probability



Sample Space

	A	B	C
A	AA	AB	AC
B	BA	BB	BC
C	CA	CB	CC

Tree Diagram



Word Problem	Open Sentence
A full box of cookies and four extra equal 24 cookies.	$b + 4 = 24$
Three full boxes of cookies equal 60 cookies.	$3b = 60$
A full box of cookies shared among four friends equal 3.	$\frac{b}{4} = 3$

Suggested Parent Activities

Ask your child: -to create and solve their own math word problems.
-to always show their work when doing math problems.

Other Key Math Vocabulary

area
fraction
even number
odd number
prime number
composite number
whole number
mixed number
order of operations
congruent figure
noncongruent figure
similar figure
elapsed time
equilateral triangle
scalene triangle
isosceles triangle

decimal
length
mean
median
mode
range
volume
perimeter
variable
weight
temperature