



Pass

6th grade Accelerated

of days

Assessment - Benchmark questions

1st nine weeks

3

Geometry

20

12

(7)3.1

Classify regular and irregular geometric figures including triangles and quadrilaterals according to their sides and angles.

3.1

Compare & contrast the basic characteristics of three-dimensional figures (pyramids, prisms, cones and cylinders).

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3.2

Compare and contrast congruent and similar figures.

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4

3.3

Identify the characteristics of the rectangular coordinate system and use them to locate points and describe shapes drawn in all four quadrants.

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4

(7)1.1

Identify, describe, and analyze functional relationships (linear and nonlinear) between two variables (e.g., as the value of x increases on a table, do the values of y increase or decrease, identify a positive rate of change on a graph and compare it to a negative rate of change).

2

Number Sense and Operations

20

20

2.1

Number Sense: Convert, compare, and order decimals, fractions, and percents using a variety of methods.

5

5

(7)2.2b

Solve percent application problems (e.g., discounts, tax, finding the missing value of percent/part/whole).

2.2b

Multiply and divide decimals with one or two-digit multipliers or divisors to solve problems.

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5

2.2d

Use the basic operations on integers to solve problems.

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(7)2.1a

Compare and order positive and negative rational numbers.

2nd nine weeks

1

Algebraic Reasoning

25

18

1.1

Generalize and extend patterns and functions using tables, graphs, and number properties (e.g., number sequences, prime and composite numbers, recursive patterns like the Fibonacci numbers).

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4

1.2

Write algebraic expressions and simple equations that correspond to a given situation.

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4

1.3

Use substitution to simplify and evaluate algebraic expressions (e.g., if $x = 5$ evaluate $3 - 5x$).

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5

1.4

Write and solve one-step equations with one variable using number sense, the properties of operations, and the properties of equality (e.g., $1/3x = 9$).

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5

(7)1.2

Write and solve two-step equations with one variable using number sense, the properties of operations, and the properties of equality (e.g., $-2x + 4 = -2$).

(7)1.3

Inequalities: Model, write, solve, and graph one-step linear inequalities with one variable.

2

Number Sense and Operations

20

15

2.2a

Multiply and divide fractions and mixed numbers to solve problems using a variety of methods.

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2.2e

Build and recognize models of multiples to develop the concept of exponents and simplify numerical expressions with exponents and parentheses using order of operations.

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5

(7)2.2c

Simplify numerical expressions with integers, exponents, and parentheses using order of operations.

(7)2.1b

Build and recognize models of perfect squares to find their square roots and estimate the square root of other numbers (e.g., the square root of 12 is between 3 and 4).

Review Questions from 1st nine weeks

10

3rd nine weeks

4

Measurement

10

7

4.1

Use formulas to find the circumference and area of circles in terms of pi.

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4

(7)4.2

Apply the formula for the circumference and area of a circle to solve problems.

4.2

Convert, add, or subtract measurements within the same system to solve problems (e.g., $9' 8" + 3' 6"$, $150 \text{ minutes} = __ \text{ hours and } __ \text{ minutes}$, $6 \text{ square inches} = __ \text{ square feet}$).

5

3

(7)4.1

Develop and apply the formulas for perimeter and area of triangles and quadrilaterals to solve problems.

2

Number Sense and Operations

15

10

2.2c

Estimate and find solutions to single and multi-step problems using whole

15

10

4th nine weeks

	numbers, decimals, fractions, and percents (e.g., $7/8 + 8/9$ is about 2, $3.9 + 5.3$ is about 9).		
5	Data Analysis	15	10
5.1	Data Analysis: Organize, construct displays, and interpret data to solve problems (e.g., data from student experiments, tables, diagrams, charts, graphs).	5	3
(7)5.1	Data Analysis: Compare, translate, and interpret between displays of data (e.g., multiple sets of data on the same graph, data from subsets of the same population, combinations of diagrams, tables, charts, and graphs).		
5.2	Probability: Use the fundamental counting principle on sets with up to five items to determine the number of possible combinations.	5	3
(7)5.2	Probability: Determine the probability of an event involving “or”, “and”, or “not” (e.g., on a spinner with one blue, two red and two yellow sections, what is the probability of getting a red or a yellow?).		
5.3	Central Tendency: Find the measures of central tendency (mean, median, mode, and range) of a set of data (with and without outliers) and understand why a specific measure provides the most useful information in a given context.	5	4
(7)5.3	Central Tendency: Compute the mean, median, mode, and range for data sets and understand how additional data or outliers in a set may affect the measures of central tendency.		
	Review Questions from 1st & 2nd nine weeks		23

	Review for OCCT		
	After OCCT testing -		
(7)2.1c	Demonstrate the concept of ratio and proportion with models (e.g., similar geometric shapes, scale models).		
(7)2.2a	Demonstrate the concept of ratio and proportion with models (e.g., similar geometric shapes, scale models).		
(7)3.2	Identify and analyze the angle relationships formed by parallel lines cut by a transversal (e.g., alternate interior angles, alternate exterior angles, adjacent, and vertical angles).		
(7)3.3	Construct geometric figures and identify geometric transformations on the rectangular coordinate plane (e.g., rotations, translations, reflections, magnifications).		
(7)4.3	Find the area and perimeter of composite figures to solve application problems.		