

DIAGNOSTIC PRE-ASSESSMENT D

Use this Diagnostic Pre-Assessment to identify students who require intervention in this area:

Geometry

Standards Plus®
COMMON CORE
INTERVENTION

Grade

7

D

After analyzing the pre-assessment data, you can implement your intervention program with our ready-to-teach Standards Plus Common Core Intervention Materials.

MATHEMATICS GRADE 7

Diagnostic Pre-Assessment



Administering the Diagnostic Pre-Assessment:

- Determine if all or a subgroup of your students will be assessed.
- Print the appropriate number of student assessments.
- Distribute the assessments and review the directions with the students.
- Have students complete the assessment independently.
- Collect and score the assessments.
- Students who perform at 75% or lower will benefit from intervention instruction for the topic.

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See the next page for the Diagnostic Pre-Assessment procedure and answer key.

Procedure and Answer Key

Standards Plus® – Common Core Intervention Mathematics – Grade 7

Procedure: Each intervention assessment is designed to be completed independently by the students. Read the directions aloud, and ensure that students understand how to mark their answer choices. Collect the assessments and use the answer key to correct.

Domain: Geometry

Focus: Surface Area & Volume

Pre-Assessment: #D1

Answers:

1. 84 mm^3
2. 1130.4 ft^3
3. 104 units^2
4. 150 cm^2
5. 19 feet; model should show a rectangle that is 5×4.5 .

Domain: Geometry

Focus: Circles

Pre-Assessment: #D2

Answers:

1. A. arc; B. chord; C. diameter; D. radius
2. Radius 6 – Diameter 12; Radius 11.5 – Diameter 23; Radius 2.45 – Diameter 4.9
3. 18.84
4. 47.1
5. 113.04
6. 706.5

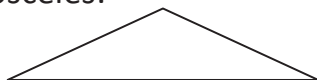
Domain: Geometry

Focus: Angles & Triangles

Pre-Assessment: #D3

Answers:

1. Students must accurately draw and label both triangles.
Obtuse isosceles:



Acute isosceles:



2. A. $\triangle ABC$ is an acute equilateral triangle.
3. F. complement 25° , supplement 115°
4. B. $\triangle DEF$ is an obtuse scalene triangle.
5. H. $\angle ABD = 145^\circ$, $\angle DBF = 35^\circ$, $\angle CBF = 145^\circ$

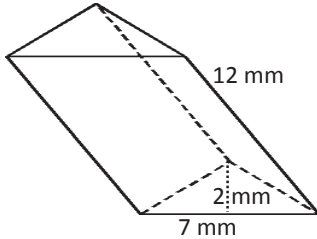
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See the next three pages for the Diagnostic Pre-Assessments.

Name: _____

Pre-Assessment D1

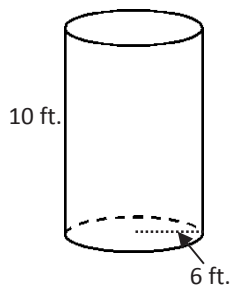
Directions: Read the questions below. Write your answers on the lines below.

1. Find the volume of this prism.



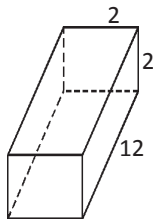
$V =$ _____

2. Find the approximate volume of the cylinder.



$V =$ _____

3. Find the surface area of this rectangular prism.



Surface Area = _____

4. Find the surface area of a cube with a side length of 5 centimeters. Draw a model to match the problem.

Surface Area = _____

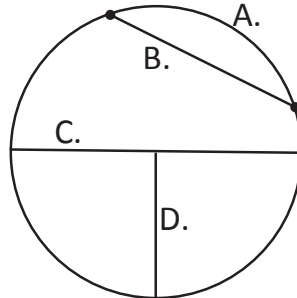
1. Mr. Smith was creating a rectangular raised vegetable garden in his yard. The garden measured 5 feet by 4.5 feet. How much fencing does he need to enclose his garden? Draw a model before answering the question.

Name: _____

Pre-Assessment D2

Directions: Read the questions below. Write your answers on the lines below.

1. Write the name of each circle part on the lines.



A. _____
B. _____
C. _____
D. _____

2. Fill in the missing information in the radius/diameter chart.

Radius	Diameter
6	
	23
2.45	

3. Find the circumference of a circle with a diameter of 6.

4. Find the circumference of a circle with a diameter of 15.

Circumference \approx _____

Circumference \approx _____

5. Find the area of a circle with a radius of 6.

6. Find the area of a circle with a radius of 15.

Area \approx _____

Area \approx _____

Name: _____

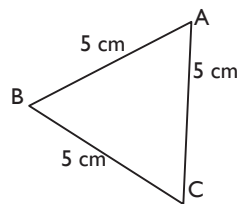
Pre-Assessment D3

Directions: Read the questions below. Write your answers on the lines below.

1. Draw an **obtuse** isosceles triangle. Draw an **acute** isosceles triangle. Label each triangle with its name.

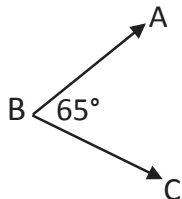
Directions: Read the questions below. Circle your answer choice.

2. Classify $\triangle ABC$.



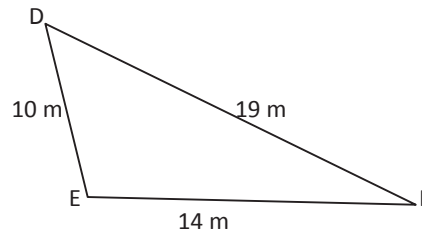
- A. $\triangle ABC$ is an acute equilateral triangle.
- B. $\triangle ABC$ is a right equilateral triangle.
- C. $\triangle ABC$ is an acute isosceles triangle.
- D. $\triangle ABC$ is an obtuse isosceles triangle.

3. Which answer gives the correct complement and supplement for angle ABC?



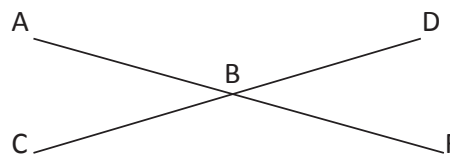
- F. complement 25°, supplement 115°
- G. complement 115°, supplement 25°
- H. complement 35°, supplement 115°
- J. complement 25°, supplement 65°

4. Classify $\triangle DEF$.



- A. $\triangle DEF$ is an obtuse equilateral triangle.
- B. $\triangle DEF$ is an obtuse scalene triangle.
- C. $\triangle DEF$ is an obtuse isosceles triangle.
- D. $\triangle DEF$ is a right scalene triangle.

5. In this diagram, if angle ABC equals 35°, what will be the sizes of $\angle ABD$, $\angle DBF$, and $\angle CBF$?



- F. $\angle ABD = 80^\circ$, $\angle DBF = 35^\circ$, $\angle CBF = 80^\circ$
- G. $\angle ABD = 360^\circ$, $\angle DBF = 180^\circ$, $\angle CBF = 360^\circ$
- H. $\angle ABD = 145^\circ$, $\angle DBF = 35^\circ$, $\angle CBF = 145^\circ$
- J. $\angle ABD = 125^\circ$, $\angle DBF = 35^\circ$, $\angle CBF = 125^\circ$

Standards Plus® Common Core Intervention

Diagnostic Pre-Assessment Results

Once you have the results of the Diagnostic Pre-Assessment, providing targeted intervention instruction is easy with Standards Plus Common Core Intervention. Simply teach the topic(s) that meet your students' needs. Each topic includes scaffolded, ready-to-teach, scripted, direct instruction lessons, performance tasks, and post-assessments.

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More About Standards Plus Common Core Intervention

What is Standards Plus CC Intervention?

Standards Plus CC Intervention is a set of research-based, scaffolded 1-8 language arts and math lessons written to the Common Core Standards. These explicit, direct instruction lessons were designed to build the essential prerequisite elements of the grade level standards.

Benefits:

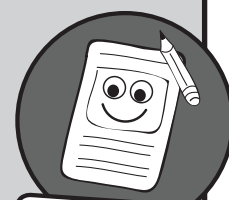
- Ready-to-teach lessons and performance tasks with very little teacher preparation.
- Instruction is scaffolded and provides exposure to the standards at DOK levels 1-3.
- Grade level content vocabulary is taught within the context of the lessons.
- Prepares students for grade level success.
- Ideal for:
 - Small group instruction
 - After school programs
 - Special Ed. settings to meet IEP goals
 - Summer school programs

Standards Plus Common Core Intervention Instructional Components

Step-by-Step

Direct Instruction Lessons:

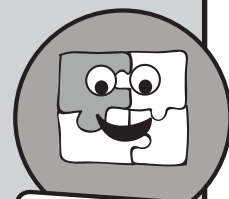
These ready-to-teach lessons are organized by topic to develop prerequisite skills and concepts while scaffolding to grade-level appropriate activities. These lessons are written to DOK levels 1 and 2.



Step-by-Step Lessons

Performance Tasks:

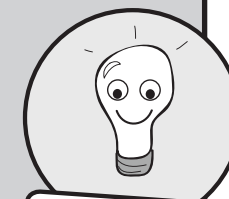
Within each topic, students have the opportunity to participate in a Performance Task to apply what they have learned in a unique setting and cement their learning. These lessons are written to DOK levels 1 and 2.



Performance Tasks

Post-Assessments:

Parallel to the Diagnostic Pre-Assessments, these assessments provide data directly related to the instruction provided.



**Post-Assessments
(Parallel to Diagnostic)**

Standards Plus®

COMMON CORE INTERVENTION

Grade	ELA Topic A	ELA Topic B	ELA Topic C	ELA Topic D
1	Reading Literature and Writing	Reading Informational Text	Reading Foundational Skills, Capitalization, and Punctuation	Spelling, Grammar & Usage, and Vocabulary
2	Reading Literature and Writing	Reading Informational Text	Reading Foundational Skills, Capitalization, Punctuation, and Spelling	Grammar & Usage and Vocabulary
3	Reading Literature and Writing	Reading Informational Text	Capitalization, Punctuation, and Spelling	Grammar & Usage and Vocabulary
4	Reading Literature and Writing	Reading Informational Text	Capitalization, Punctuation, and Spelling	Grammar & Usage and Vocabulary
5	Reading Literature and Writing	Reading Informational Text	Capitalization, Punctuation, and Spelling	Grammar & Usage and Vocabulary
6	Reading Literature and Writing	Reading Informational Text	Capitalization, Punctuation, and Spelling	Grammar & Usage and Vocabulary
7	Reading Literature and Writing	Reading Informational Text	Capitalization, Punctuation, and Spelling	Grammar & Usage and Vocabulary
8	Reading Literature and Writing	Reading Informational Text	Capitalization, Punctuation, Spelling, and Grammar & Usage	Vocabulary
Grade	Math Topic A	Math Topic B	Math Topic C	Math Topic D
1	Operations & Algebraic Thinking	Number & Operations in Base Ten	Measurement & Data	Geometry
2	Operations & Algebraic Thinking	Number & Operations in Base Ten	Measurement & Data	Geometry
3	Operations & Algebraic Thinking	Number & Operations – Fractions	Number & Operations in Base Ten and Geometry	Measurement & Data
4	Operations & Algebraic Thinking	Number & Operations – Fractions	Number & Operations in Base Ten and Geometry	Measurement & Data
5	Number & Operations in Base Ten	Number & Operations – Fractions	Measurement & Data	Operations & Algebraic Thinking
6	The Number System	Ratios & Proportional Relationships	Expressions & Equations	Geometry and Statistics & Probability
7	Ratios & Proportional Relationships and The Number System	Expressions & Equations	Statistics & Probability	Geometry
8	The Number System and Expressions & Equations	Functions	Statistics & Probability	Geometry

To learn more, please contact 1.877.505.9152