This guide includes:
- Purpose
- Assessment Design
- Test Administration
- Sample Test Items
- Resources
- Appendix A: Assessable Content
- Appendix B: Answer Key/Rubrics for Sample Items
- Appendix C: Update Log

PURPOSE
This document is designed to assist Louisiana educators in understanding the LEAP 2025 mathematics assessment for Geometry.

Introduction
In order to create a more cohesive grades three through high school assessment system, the high school assessments are transitioning from four-level to five-level tests. These new tests provide:
- consistency with the approach and design of the LEAP 2025 mathematics assessments at grades 3-8;
- questions that have been reviewed by Louisiana educators to ensure their alignment with the Louisiana Student Standards for Mathematics (LSSM) and appropriateness for Louisiana students;
- consistency in graduation requirements;
- measurement of the full range of student performance, including the performance of high- and low-performing students; and
- information for educators and parents about student readiness in mathematics and whether students are “on track” for college and careers.

For additional information about the high school assessment program, see the High School Assessment Frequently Asked Questions.

Mathematics Vision for Instruction and Assessment
Students in Louisiana are ready for college or a career if they are able to meet college and workplace expectations without needing remediation in mathematics skills and concepts. The Louisiana Student Standards for Mathematics (LSSM) support students to become mathematically proficient by focusing on three components of rigor: conceptual understanding, procedural skill and fluency, and application.

Focus
- Focus strongly where the standards focus.

Coherence
- Think across grades, and link to major topics within grades.

Rigor
- In major topics, pursue conceptual understanding, procedural skill and fluency, and application with equal intensity.
**Conceptual understanding** refers to understanding mathematical concepts, operations, and relations. It is more than knowing isolated facts and methods. Students should be able to make sense of why a mathematical idea is important and the kinds of contexts in which it is useful. It also allows students to connect prior knowledge to new ideas and concepts.

**Procedural Skill and Fluency** is the ability to apply procedures accurately, efficiently, and flexibly. It requires speed and accuracy in calculation while giving students opportunities to practice basic skills. Students’ ability to solve more complex application tasks is dependent on procedural skill and fluency.

**Application** provides a valuable context for learning and the opportunity to solve problems in a relevant and a meaningful way. It is through real-world application that students learn to select an efficient method to find a solution, determine whether the solution(s) makes sense by reasoning, and develop critical thinking skills.

**ASSESSMENT DESIGN**

**Supporting Key Goals in Mathematics Instruction**

The LEAP 2025 Mathematics assessments focus on testing the LSSM according to the components of rigor reflected in high-quality mathematics instructional tasks that:

- require students to demonstrate understanding of mathematical reasoning in mathematical and applied contexts;
- assess accurate, efficient, and flexible application of procedures and algorithms;
- rely on application of procedural skill and fluency to solve complex problems; and
- require students to demonstrate mathematical reasoning and modeling in real-world contexts.

**Assessable Content**

Each item on the LEAP 2025 mathematics assessment is referred to as a task and is identified by one of three types: Type I, Type II, or Type III. The tasks on the LEAP 2025 mathematics assessment are aligned directly to the Louisiana Student Standards for Mathematics (LSSM) for all reporting categories.

- **Type I tasks**, designed to assess conceptual understanding, fluency, and application, are aligned to the major, additional, and supporting content for grade 8.
- **Type II tasks** are designed to assess student reasoning ability of selected major content for grades 7, 8 or Algebra I in applied contexts.
- **Type III tasks** are designed to assess student modeling ability of selected content for grades 7, 8, or Algebra I in applied contexts. Type II and III tasks are further aligned to LEAP 2025 evidence statements for the Expressing Mathematical Reasoning and Modeling & Application reporting categories.

All tasks are reviewed and vetted by teacher committees to verify direct and full alignment to the LSSM. LEAP 2025 evidence statements for Geometry are labeled as “LEAP.II.GM.#” for Type II tasks and “LEAP.III.GM.#” for Type III tasks. See the table in Appendix A for a listing of assessable content of the LSSM and LEAP 2025 evidence statements.
As shown in the following table, each of the three task types is aligned to one of four reporting categories: Major Content, Additional & Supporting Content, Expressing Mathematical Reasoning, or Modeling & Application. Each task type is designed to align with at least one of the Louisiana Student Standards for Mathematical Practice (MP), found on pages 6-8 in the *K-12 Louisiana Student Standards for Mathematics*.

<table>
<thead>
<tr>
<th>Task Type</th>
<th>Description</th>
<th>Reporting Category</th>
<th>Mathematical Practice (MP)</th>
</tr>
</thead>
</table>
| Type I    | conceptual understanding, fluency, and application | **Major Content:** solve problems involving the major content for Geometry  
**Additional & Supporting Content:** solve problems involving the additional and supporting content for Geometry | can involve any or all practices |
| Type II   | written arguments/justifications, critique of reasoning, or precision in mathematical statements | **Expressing Mathematical Reasoning:** express mathematical reasoning by constructing mathematical arguments and critiques | primarily MP.3 and MP.6, but may also involve any of the other practices |
| Type III  | modeling/application in a real-world context or scenario | **Modeling & Application:** solve real-world problems engaging particularly in the modeling practice | primarily MP.4, but may also involve any of the other practices |

The Major Content reporting category will be divided, based on *Achievement Level Descriptors* into the following subcategories.

<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Associated LSSM and LEAP 2025 Evidence Statements</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Congruence Transformations/ Similarity</td>
<td>GM: G-CO.B.6, GM: G-SRT.A.1, GM: G-SRT.A.2, GM: G-SRT.B.5, LEAP.I.GM.1</td>
<td>Students apply similarity and congruence criteria to determine similarity or congruence of transformed figures, to prove theorems and geometric relationships, and to solve problems.</td>
</tr>
<tr>
<td>Similarity in Trigonometry/ Modeling &amp; Applying</td>
<td>GM: G-SRT.C.6, GM: G-SRT.C.7, GM: G-SRT.C.8, GM: G-GPE.B.6, LEAP.I.GM.2</td>
<td>Students understand and apply trigonometric ratios and the Pythagorean Theorem to demonstrate mathematical relationships in right triangles and to solve problems. Students apply geometric concepts in modeling situations, including using coordinates and equations to compute values, prove theorems and criteria, and solve problems.</td>
</tr>
</tbody>
</table>

These reporting categories will provide parents and educators valuable information about
- overall student performance, including readiness to continue further studies in mathematics;
- student performance broken down by mathematics content and practices, which may help identify when students need additional support or more challenging work;
- student performance in Major Content broken down by content subcategories, which may help teachers and schools home in on specific content for professional development; and
- how well schools and school systems are helping students achieve higher expectations.
Achievement-level Definitions

Achievement-level definitions briefly describe the expectations for student performance at each of Louisiana’s five achievement levels:

- **Advanced**: Students performing at this level have *exceeded* college and career readiness expectations, and are well prepared for the next level of studies in this content area.
- **Mastery**: Students performing at this level have *met* college and career readiness expectations, and are prepared for the next level of studies in this content area.
- **Basic**: Students performing at this level have *nearly met* college and career readiness expectations, and may need additional support to be fully prepared for the next level of studies in this content area.
- **Approaching Basic**: Students performing at this level have *partially met* college and career readiness expectations, and will need much support to be prepared for the next level of studies in this content area.
- **Unsatisfactory**: Students performing at this level have *not yet met* the college and career readiness expectations, and will need extensive support to be prepared for the next level of studies in this content area.

Achievement Level Descriptors

**Achievement Level Descriptors** (ALDs) indicate what a typical student at each level should be able to demonstrate based on his or her command of grade-level standards. In Geometry, the ALDs are written for the four assessment reporting categories. Access the Geometry ALDs in the Assessment library for a breakdown of the knowledge, skills, and practices associated with each achievement level.

Test Design

The LEAP 2025 Geometry assessment contains a total of 39 tasks for 68 points. The table below shows the breakdown of the number of tasks and point values by Reporting Category and Session. The LEAP 2025 Geometry assessment is **timed**. No additional time is permitted, except for students who have a documented extended time accommodation (e.g., an IEP).

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Session 1a: No Calculator</th>
<th>Session 1b: Calculator</th>
<th>Session 2: Calculator</th>
<th>Session 3: Calculator</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tasks</td>
<td>Points</td>
<td>Tasks</td>
<td>Points</td>
<td>Tasks</td>
</tr>
<tr>
<td>Major Content</td>
<td>5</td>
<td>5</td>
<td>2</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Additional &amp; Supporting Content</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Expressing Mathematical Reasoning</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Modeling &amp; Application</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL Operational</strong></td>
<td>7</td>
<td>9</td>
<td>6</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Total Embedded Field Test</td>
<td>1</td>
<td>N/A</td>
<td>1</td>
<td>N/A</td>
<td>1</td>
</tr>
<tr>
<td>Session Time</td>
<td>25 minutes</td>
<td>55 minutes</td>
<td>80 minutes</td>
<td>80 minutes</td>
<td>240 minutes</td>
</tr>
</tbody>
</table>

**Note**: The test will contain additional field-test tasks. The field-test tasks do **not** count towards a student’s final score on the test; they provide information that will be used to help develop future test forms.
The following table includes information on the total tasks, total points, and percentage of assessment points by task-type point-values.

<table>
<thead>
<tr>
<th>Task Types</th>
<th>Point-Values</th>
<th>Total Tasks</th>
<th>Total Points</th>
<th>Percentage of Assessment Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-point tasks</td>
<td>24</td>
<td>24</td>
<td>42</td>
<td>35%</td>
</tr>
<tr>
<td>2-point tasks</td>
<td>7</td>
<td>14</td>
<td>21%</td>
<td></td>
</tr>
<tr>
<td>4-point tasks</td>
<td>1</td>
<td>4</td>
<td>6%</td>
<td></td>
</tr>
<tr>
<td>Type II</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-point tasks</td>
<td>1</td>
<td>3</td>
<td>11</td>
<td>4%</td>
</tr>
<tr>
<td>4-point tasks</td>
<td>2</td>
<td>8</td>
<td>12%</td>
<td></td>
</tr>
<tr>
<td>Type III</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-point tasks</td>
<td>1</td>
<td>3</td>
<td>15</td>
<td>4%</td>
</tr>
<tr>
<td>6-point tasks</td>
<td>2</td>
<td>12</td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>38</td>
<td>68</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

**TEST ADMINISTRATION**

Administration Information

The LEAP 2025 Geometry test is administered during three testing windows. The school or district test coordinator will communicate the testing schedule. The table below shows the testing window and student-level results by administration.

<table>
<thead>
<tr>
<th>Administration</th>
<th>Testing Window</th>
<th>Release of Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>December 2 – December 18</td>
<td>In window</td>
</tr>
<tr>
<td>Spring</td>
<td>April 20 – May 15</td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>June 15 – June 19</td>
<td></td>
</tr>
</tbody>
</table>

Scheduling Requirements for Computer-Based Testing

Computer-based testing allows school systems some flexibility in scheduling. However, to reduce incidences of testing irregularities, school systems must adhere to the following scheduling and administration practices:

- Testing students in the same grade level across the school at or very close to the same time
- Completing makeup testing for students immediately upon their return
- Limiting student interaction during breaks between test sessions
- Isolating students who have not completed testing for the day (e.g., students with extended time accommodation)
- Preventing interaction between groups of students taking the same tests at different times within a testing day
- Requiring the completion of a session once it is opened (i.e., limiting the reopening of test sessions)
- Taking the sessions within a content area in the correct order (e.g., Math Session 1a taken before Math Session 1b)
We also recommend:

- limiting sessions to no more than three in one day for a student; and
- administering no more than one session that includes an extended-response task or writing prompt (i.e., Session 2 of U.S. History, Sessions 1 and 2 of English I and English II) in a day to an individual student.

For more information about scheduling and administration policies, refer to the CBT Guidance document, found in the LDOE Assessment library.

Item Types
The Geometry Assessment includes several types of items. All of the item types in the following list will appear on the tests.

- **Multiple Choice (MC)** – This item type asks students to choose one correct answer from four and may appear as a one-part question, as part of a two-part question, or as a part of a CR item. The MC items are worth one point.

- **Multiple Select (MS)** – This item type asks students to choose more than one correct answer and may appear as a one-part question, as part of a two-part question, or as a part of a CR item. Whenever this item type is used, the question always identifies in boldface print that more than one answer is required. The question may or may not specify the exact number of correct answers. The MS items are worth one point. Students must choose all correct answers and no incorrect answer can be chosen.

- **Short Answer (SA)** – This item type asks students to key numeric answers into an entry box using the keyboard and may appear as a one-part question, as part of a two-part question, or as a part of a CR item. The SA items are worth one point. Unless specified in the question, a student will earn credit for an answer that is mathematically equivalent to the correct numerical answer. Answers to SA items can be positive or negative and must be entered in integer or decimal form.

- **Keypad Input (KI)** – This item type asks students to key numeric or algebraic answers in the form of fractions, mixed numbers, expressions, equations, or inequalities. This item type may appear as a one-part question, as part of a two-part question, or as a part of a CR item. The KI items are worth one point. Unless specified in the question, a student will earn credit for an answer that is equivalent to the correct numeric or algebraic response. Sample item can be found in the Algebra I Assessment Guide.

- **Technology Enhanced (TE)** – This item type uses technology to capture student responses and may appear as a one-part question, as part of a two-part question, or as a part of a CR item. The TE items are worth one point. Students must meet the requirements of the question exactly to receive credit. The Online Tools Training (OTT) allows students to practice answering the different types of TE questions. For a summary of the different kinds of TE items and where to find examples, refer to LEAP 2025 Technology-Enhanced Item Types.

- **Constructed Response (CR)** – This item type can be single- or multi-part. CR items ask students to create a written explanation or justification, model a process, and/or compute an answer to earn a series of points. A student may receive partial or full credit on CR items, but maximum point values will vary by task. Maximum values for CR items are 3, 4, or 6 points. When responding to a CR item, students will type their responses into a response box, like the shown one below.
Response Box
The response box allows students to use the keyboard to type in their response or work. There is a limit to the number of characters that can be typed in the response box; however, it is set will beyond what a student might produce based on grade-specific expectations of the item. The toolbar at the top of the response box has the Equation Builder tool that allows the students to create a response with commonly-used grade-specific mathematical symbols.

Equation Builder
Students are not required to use the equation builder for any symbols which are available on the keyboard. For example, students may use a slash, forward / or back \, to represent a fraction, a carat ^ to represent exponents, or a pair of pipes || to represent absolute value. Additionally, symbols like degree ° and perpendicular ⊥ are not available on the keyboard, but students may type the words “degrees” and “perpendicular” as necessary. Other symbols, such as square root √ and pi π, are not available on the keyboard, but may be required in symbol form for expressions and equations.

The Equation Builder does not include all symbols/characters students might need to type into the response box. Students should know how to type a negative sign - and a colon : using the keyboard. The × button in the Equation Builder is a multiplication symbol and should not be used as a variable x, but students are not penalized if they do.
Using the Equation Builder

- To enter text, click pointer in the Response Box and type text using the keyboard.
- Click on the Equation Builder button to open the tool and enter any mathematical symbols, characters, or format.
- When finished, click on the OK button in the lower-right corner of the Equation Builder tool – the equation will be entered into the response box.
- To cancel what you have entered, click on the Cancel button in the lower-right corner of the Equation Builder tool and you will be returned to the response box.
- To edit an existing equation, double-click on the equation in the Response Box. This will re-open the Equation Builder.

Online Tools
The tests include the following online tools, which allow a student to select answer choices, “mark” tasks, eliminate answer options, use a calculator, take notes, enlarge the task, guide the reading of a task line by line, see the mathematics reference sheet, use a ruler, and use an equation builder for entering special characters. A help tool is also featured to assist students as they use the online system.

- Pointer tool
- Highlighter tool
- Cross-Off tool
- Calculator
- Sticky Note tool
- Magnifying tool
- Line Guide
- Graphing tool
- Equation Builder
- Help tool
- Reference Sheet

All students should work through the Online Tools Training (available in INSIGHT or here using the Chrome browser) to practice using the online tools so they are well prepared to navigate the online testing system.
Spanish Math Guidelines

Spanish-language versions of the LEAP 2025 mathematics assessments are available. The following guidelines should be used when assigning a student to a Spanish-language mathematics assessment. The student should meet at least one of the following criteria.

- A student whose primary language is Spanish and who receives instruction in Spanish
- A student who is a recently arrived EL and had prior instruction in mathematics in Spanish
- A student who is enrolled in a dual-language immersion program that includes where mathematics is taught in Spanish

Consideration of the following is strongly urged when deciding which version of the mathematics assessment form (i.e., English-language or Spanish-language version) is best for a Spanish-speaking student.

- The language in which a student receives instruction affects their performance.
- A Spanish-speaking student who is not receiving instruction in Spanish may not have knowledge of math-specific terms translated to Spanish.
- A Spanish-speaking student may not have the literacy skills required to read in Spanish (speaking Spanish is not the same as reading Spanish).

If a teacher is unsure whether the Spanish-language version is appropriate for a specific student, it is recommended that the student take one session of the practice test in English and one session in Spanish in order to determine the language in which the student is most comfortable.

Permitted Testing Materials

All students should receive scratch paper (lined, graph, and/or unlined) and two pencils from their test administrator.

<table>
<thead>
<tr>
<th>Required Tools</th>
<th>Provided</th>
<th>Session 1a</th>
<th>Sessions 1b, 2, &amp; 3</th>
<th>Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>scratch paper (lined, graph, un-lined), two pencils</td>
<td>by Test Administrator</td>
<td>YES</td>
<td>YES</td>
<td>• Reference sheets may be printed from the DRC Insight Portal (eDirect)</td>
</tr>
<tr>
<td>calculator</td>
<td>online and/or by Test Administrator</td>
<td>NO</td>
<td>YES</td>
<td>• Tools provided by Test Administrator must not be written on</td>
</tr>
<tr>
<td>High School Mathematics Reference Sheet</td>
<td>online and/or by Test Administrator</td>
<td>YES</td>
<td>YES</td>
<td>• See Calculator Policy for calculator specifications</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allowable Tools</th>
<th>Provided</th>
<th>Session 1a</th>
<th>Sessions 1b, 2 &amp; 3</th>
<th>Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>protractor, tracing paper, reflection tools, straight edge, and compass</td>
<td>by Test Administrator</td>
<td>YES</td>
<td>YES</td>
<td>• Schools may permit students to bring their own allowable tools; test administrators must ensure tools are appropriate for testing (e.g., tools do not have any writing on them)</td>
</tr>
</tbody>
</table>
Calculator Policy

The LEAP 2025 Geometry test allows a graphing calculator (recommended) or scientific calculator during Sessions 1b, 2, and 3. Calculators are not allowed during Session 1a of the test. For students with the approved accommodation, a graphing calculator (recommended) or scientific calculator is allowed during all test sessions. Students should use the calculator they have regularly used throughout the school year in their classroom and are most familiar with, provided their regular-use calculator is not outside the boundaries of what is allowed. The following table includes calculator information by session for both general testers and testers with approved accommodations for calculator use.

<table>
<thead>
<tr>
<th>Calculator Policy</th>
<th>Session 1a</th>
<th>Sessions 1b, 2, &amp; 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Testers</td>
<td>Not allowed</td>
<td>Graphing calculator and scientific calculator available online, may also have handheld graphing calculator (recommended) or scientific calculator</td>
</tr>
<tr>
<td>Testers with approved accommodation for calculator use</td>
<td>Graphing calculator and scientific calculator provided online, may also have handheld</td>
<td></td>
</tr>
</tbody>
</table>

Additional information for testers with approved accommodations for calculator use:
- If a student needs an adaptive calculator (e.g., large key, talking), the student may bring his or her own or the school may provide one, as long as it is specified in his or her approved IEP or 504 Plan.

NOTE: To become familiar with the online graphing calculator, teachers and students can visit Desmos for practice at https://www.desmos.com/calculator.

Schools must adhere to the following guidance regarding calculators.
- Calculators with the following features are not permitted:
  - Computer Algebra System (CAS) features,
  - “QWERTY” keyboards,
  - paper tape
  - talk or make noise, unless specified in IEP/IAP
  - tablet, laptop (or PDA), phone-based, or wristwatch
- Students are not allowed to share calculators within a testing session.
- Test administrators must confirm that memory on all calculators has been cleared before and after the testing sessions.
- If schools or school systems permit students to bring their own hand-held calculators, test administrators must confirm that the calculators meet all the requirements as defined above.
## Reference Sheet

Students in Geometry will be provided a reference sheet online with the information below. The High School Mathematics Reference Sheet may be printed from the DRC Insight Portal (eDirect) or found in the Assessment Library on page 5 of LEAP 2025 Grades 5-HS Mathematics Reference Sheets.

### High School Mathematics Reference Sheet

<table>
<thead>
<tr>
<th>Conversion</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 inch = 2.54 cm</td>
<td>1 pound = 16 ounces</td>
</tr>
<tr>
<td>1 meter = 39.37 inches</td>
<td>1 pound = 0.454 kg</td>
</tr>
<tr>
<td>1 mile = 5280 feet</td>
<td>1 kilogram = 2.2 pounds</td>
</tr>
<tr>
<td>1 mile = 1760 yards</td>
<td>1 gallon = 4 quarts</td>
</tr>
<tr>
<td>1 kilometer = 0.62 mile</td>
<td>1 liter = 0.264 gallon</td>
</tr>
<tr>
<td>1 mile = 1.609 kilometers</td>
<td>1 liter = 1000 cubic centimeters</td>
</tr>
</tbody>
</table>

### Geometric Formulas

<table>
<thead>
<tr>
<th>Shape</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triangle</td>
<td>$A = \frac{1}{2}bh$</td>
</tr>
<tr>
<td>Parallelogram</td>
<td>$A = bh$</td>
</tr>
<tr>
<td>Circle</td>
<td>$A = \pi r^2$</td>
</tr>
<tr>
<td>Circle</td>
<td>$C = \pi d$ or $C = 2\pi r$</td>
</tr>
<tr>
<td>General Prisms</td>
<td>$V = Bh$</td>
</tr>
<tr>
<td>Cylinder</td>
<td>$V = \pi r^2h$</td>
</tr>
<tr>
<td>Sphere</td>
<td>$V = \frac{4}{3}\pi r^3$</td>
</tr>
<tr>
<td>Cone</td>
<td>$V = \frac{1}{3}\pi r^2h$</td>
</tr>
<tr>
<td>Pyramid</td>
<td>$V = \frac{1}{3}Bh$</td>
</tr>
</tbody>
</table>

### Quadratic Formula

$x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}$

### Radians and Degrees

- 1 radian = $\frac{180}{\pi}$ degrees
- 1 degree = $\frac{\pi}{180}$ radians

### Arithmetic Sequence

$a_n = a_1 + (n - 1)d$

### Geometric Sequence

$a_n = a_1 r^{n-1}$

### Geometric Series

$S_n = \frac{a_1 - a_1 r^n}{1-r}$

where $r \neq 1$
SAMPLE TEST ITEMS

This section includes four Type I tasks, one Type II task, and one Type III task as they would appear on a CBT form. The answer key for each Type I task and scoring rubrics for each constructed-response task is located in Appendix B. Look for some of these tasks in the OTT.

4-point Type I Task: Multiple-Choice, Multiple-Select, Technology-Enhanced Drop-Down Menu

An incomplete proof of the theorem that the sum of the interior angles of a triangle is 180° is shown.

Given: \( \triangle ABC \)
Prove: \( m\angle 1 + m\angle 2 + m\angle 3 = 180° \)

<table>
<thead>
<tr>
<th>Statement</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Draw line ( BD ) parallel to line ( AC )</td>
<td>1)</td>
</tr>
<tr>
<td>2)</td>
<td>2)</td>
</tr>
<tr>
<td>3) ( m\angle 2 + m\angle 4 = m\angle ABD ); ( m\angle 5 + m\angle ABD = 180° )</td>
<td>3) Angle addition postulate</td>
</tr>
<tr>
<td>4) ( m\angle 5 + m\angle 2 + m\angle 4 = 180° )</td>
<td>4) Substitution property of equality</td>
</tr>
<tr>
<td>5) ( m\angle 1 + m\angle 2 + m\angle 3 = 180° )</td>
<td>5)</td>
</tr>
</tbody>
</table>

Part A

What is the appropriate reason for the statement in step 1?

- (a) Through any two points, there is exactly one line.
- (b) Through a point not on a line, there is exactly one line parallel to the given line.
- (c) If two lines cut by a transversal form congruent corresponding angles, then the lines are parallel.
- (d) If two lines cut by a transversal form congruent alternate interior angles, then the lines are parallel.
Part B

Which pairs of angle congruences or equalities should be used for the statement in step 2?

Indicate all such pairs.

- a) $\angle 1 \cong \angle 2$ or $m\angle 1 = m\angle 2$
- b) $\angle 1 \cong \angle 3$ or $m\angle 1 = m\angle 3$
- c) $\angle 1 \cong \angle 4$ or $m\angle 1 = m\angle 4$
- d) $\angle 1 \cong \angle 5$ or $m\angle 1 = m\angle 5$
- e) $\angle 2 \cong \angle 3$ or $m\angle 2 = m\angle 3$
- f) $\angle 2 \cong \angle 4$ or $m\angle 2 = m\angle 4$
- g) $\angle 2 \cong \angle 5$ or $m\angle 2 = m\angle 5$
- h) $\angle 3 \cong \angle 4$ or $m\angle 3 = m\angle 4$

Part C

Select from the drop-down menu to correctly complete the sentence.

The reason for the statement in step 2 is that

- if two parallel lines are cut by a transversal, then alternate interior angles are congruent
- if two parallel lines are cut by a transversal, then corresponding angles are congruent
- if two lines cut by a transversal form congruent corresponding angles, then the lines are parallel
- if two lines cut by a transversal form congruent alternate interior angles, then the lines are parallel
Part D

Select from the drop-down menu to correctly complete the sentence.

The appropriate reason for the statement in step 5 is the __________.

reflexive property of equality
symmetric property of equality
transitive property of equality
substitution property of equality

2-point Type I Task: Short Answer

Circle $T$ is shown. Line $PS$ and line $RS$ are tangent to circle $T$.

**Part A**

What is the measure, in degrees, of $\angle PTR$?

Enter your answer in the box.

**Part B**

What is the measure, in degrees, of $\angle PQR$?

Enter your answer in the box.
Triangle $ABC$ has sides with lengths of 3, 6, and 8. Classify each of the transformations described as producing a triangle similar to triangle $ABC$ or a triangle not similar to triangle $ABC$.

Drag and drop each transformation into the appropriate box.

- **Similar to Triangle $ABC$**
- **Not Similar to Triangle $ABC$**

- Multiply each side length by 3.5.
- Add 12 to each side length.
- Subtract 2 from each side length.
- Divide each side length by 0.75.
1-point Type I Task: Technology-Enhanced Coordinate Grid

Line segment \(JK\) in the coordinate plane has endpoints with coordinates \((-4, 11)\) and \((8, -1)\).

Graph \(JK\) and find two possible locations for point \(M\) so that \(M\) divides \(JK\) into two parts with lengths in a ratio of 1:3.

To graph a line segment, click the line segment button. Then, click on one of the endpoints of the line segment and drag the pointer to the other endpoint. To plot points, click the point button. Then click on the location of the points on the coordinate plane.
Is the figure shown in the xy-coordinate plane a parallelogram? Why or why not? Use the given coordinates to justify your answer.
6-point Type III Task: Constructed-Response

Part A

Moira collected some stones at the beach. Now she wants to make a clear plastic container to display the stones. To plan the container, Moira decides that she must first find the volume of the stones.

Moira has an aquarium that is shaped like a rectangular prism. It is 8 inches wide, 16 inches long, and 10 inches high. She plans to use the aquarium to find the volume of the stones.

First, Moira pours some water into the aquarium. She measures and finds that the water reaches to a height of 4 inches.

Then Moira puts the stones in the aquarium. She measures and finds that the water reaches to a new height of 7 inches.

Using this information, find the volume of the stones. Show your work.

Enter your answer and show your work in the box provided.
Moira is considering three possible shapes for the container that will hold the stones. The shapes are shown.

Find the volume of each shape. Show your work.

Enter your answer and show your work in the box provided.

Part C

Based on Parts A and B, which of the three shapes would be Moira’s best choice for a container for the stones? Explain your answer.

Enter your answer and your explanation in the space provided.
RESOURCES

Assessment Guidance Library
- LEAP 2025 Equation Builder Guide for High School: provides teachers with information on using the equation builder; Spanish
- LEAP 2025 Grades 5-HS Mathematics Reference Sheets: includes all the mathematics references sheets provided for LEAP 2025 testing; used for both Algebra I and Geometry
- Desmos: link to Desmos free online graphing calculator and resources for its use (https://www.desmos.com/calculator)
- Assessment Development Educator Review Committees: describes the item development process and the associated committees, includes information on applying for participation

Practice Test Library
- LEAP 2025 Geometry Practice Test and Answer Key: includes answer keys, scoring rubrics, and alignment information for each task
- LEAP 2025 Mathematics Practice Test Guidance: provides guidance on how teachers might better use the practice tests
- Practice Test Quick Start Guide: provides information regarding the administration and scoring process for the online practice tests

Assessment Library
- LEAP 2025 Accessibility and Accommodations Manual: provides information about accessibility features and accommodations
- LEAP 2025 Technology Enhanced Item Types: provides a summary of technology enhanced items students may encounter
- Achievement Level Descriptors: descriptions of the knowledge, skills, and cognitive processes that students should demonstrate with relative consistency and accuracy at each level of achievement
- LEAP 360: non-summative assessment system; includes diagnostic and interim assessments

DRC Insight Portal (eDIRECT)
- includes access to tutorials, manuals, and user guides

INSIGHT™
- Online Tools Training: allows students to become familiar with the tools available in the online testing platform
- LEAP 2025 Geometry Practice Test: helps prepare students for the tests

Grades 9-12 Math Teacher Library
- K-12 Louisiana Student Standards for Math: explains the development of and lists the math content standards for Louisiana students
- Geometry - Teachers Companion Document 2.0: contains descriptions of each standard to answer questions about the standard’s meaning and how it applies to student knowledge and performance
- Geometry Remediation Guide: reference guide for teachers to help them more quickly identify the specific remedial standards necessary for every standard, includes information on content emphasis
- K-12 LSSM Alignment to Rigor: provides explanations and a standards-based alignment to assist teachers

Contact Us
- assessment@la.gov for assessment questions
- classroomsupporttoolbox@la.gov for curriculum and instruction questions
- AskLDOE for general questions
- ldoecommunications@la.gov to subscribe to newsletters; include the newsletter(s) you want to subscribe to in your email

Newsroom: offers archive copies of newsletters including the LDOE Weekly School System Newsletter and the Teacher Leader Newsletter
### Assessable Content for the Major Content Reporting Category (Type I)

#### LSSM Content Standards

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM: G-CO.B.6</td>
<td>Use geometric descriptions of rigid motions to transform figures and to predict the effect of a given rigid motion on a given figure; given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.</td>
</tr>
</tbody>
</table>
| GM: G-SRT.A.1 | Verify experimentally the properties of dilations given by a center and a scale factor:  
  a. A dilation takes a line not passing through the center of the dilation to a parallel line, and leaves a line passing through the center unchanged.  
  b. The dilation of a line segment is longer or shorter in the ratio given by the scale factor. |
| GM: G-SRT.A.2 | Given two figures, use the definition of similarity in terms of similarity transformations to decide if they are similar; explain using similarity transformations the meaning of similarity for triangles as the equality of all corresponding pairs of angles and the proportionality of all corresponding pairs of sides. |
| GM: G-SRT.B.5 | Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures. |
| GM: G-SRT.C.6 | Understand that by similarity, side ratios in right triangles, including special right triangles (30-60-90 and 45-45-90), are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles. |
| GM: G-SRT.C.7 | Explain and use the relationship between the sine and cosine of complementary angles. |
| GM: G-SRT.C.8 | Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems. |
| GM: G-GPE.B.6 | Find the point on a directed line segment between two given points that partitions the segment in a given ratio. |

#### LEAP 2025 Evidence Statement

<table>
<thead>
<tr>
<th>Evidence Statement</th>
<th>Description</th>
</tr>
</thead>
</table>
| LEAP.I.GM.1 | Prove geometric theorems as detailed in GM: G-CO.C.  
  • GM: G-CO.C –Theorems include but are not limited to the examples listed in standards GM: G-CO.C.9, 10, and 11. Multiple types of proofs are allowed (e.g., two-column proof, indirect proof, paragraph proof, and flow diagrams). |
| LEAP.I.GM.2 | Solve multi-step contextual word problems with degree of difficulty appropriate to the course, requiring application of course-level knowledge and skills articulated in  
  • GM: G-MG and GM: G-GPE.B.7 – GM: G-MG is the primary content.¹ |

¹ See examples at [https://www.illustrativemathematics.org/](https://www.illustrativemathematics.org/) for GM: G-MG.
### Assessable Content for the Additional & Supporting Content Reporting Category (Type I)

<table>
<thead>
<tr>
<th>LSSM Content Standards</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM: G-CO.A.1</td>
<td>Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.</td>
</tr>
<tr>
<td>GM: G-CO.A.3</td>
<td>Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.</td>
</tr>
<tr>
<td>GM: G-CO.A.5</td>
<td>Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using, e.g., graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another.</td>
</tr>
<tr>
<td>GM: G-C.A.2</td>
<td>Identify and describe relationships among inscribed angles, radii, and chords, including the following: the relationship that exists between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; and a radius of a circle is perpendicular to the tangent where the radius intersects the circle.</td>
</tr>
<tr>
<td>GM: G-GPE.A.1</td>
<td>Derive the equation of a circle of given center and radius using the Pythagorean Theorem; complete the square to find the center and radius of a circle given by an equation.</td>
</tr>
<tr>
<td>GM: G-GMD.A.1</td>
<td>Give an informal argument, e.g., dissection arguments, Cavalieri’s principle, and informal limit arguments, for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone.</td>
</tr>
<tr>
<td>GM: G-GMD.A.3</td>
<td>Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.</td>
</tr>
<tr>
<td>GM: G-GMD.B.4</td>
<td>Identify the shapes of two-dimensional cross-sections of three-dimensional objects, and identify three-dimensional objects generated by rotations of two-dimensional objects.</td>
</tr>
</tbody>
</table>

### LEAP 2025 Evidence Statements

| LEAP.I.GM.3            | Make and understand geometric constructions as detailed in GM: G-CO.D.  
|                        | • Tasks may include requiring students to justify steps and results of a given construction. |
| LEAP.I.GM.4            | Find arc lengths and areas of sectors of circles.  
|                        | • GM: G-C.B – Tasks involve computing arc lengths or areas of sectors given the radius and the angle subtended; or vice versa. |
| LEAP.I.GM.5            | Solve multi-step contextual word problems with degree of difficulty appropriate to the course, requiring application of course-level knowledge and skills articulated in GM: S-CP.  
|                        | • GM: S-CP |
### LEAP 2025 Evidence Statements

| LEAP.II.GM.1 | Apply geometric reasoning in a coordinate setting, and/or use coordinates to draw geometric conclusions. Content scope: Knowledge and skills in
|             | - GM: G-GPE.B.4
|             | - GM: G-GPE.B.5
|             | - GM: G-GPE.B.6, GM: G-GPE.B.7 |

| LEAP.II.GM.2 | Construct, autonomously, chains of reasoning that will justify or refute geometric propositions or conjectures. Content scope: Knowledge and skills in
|             | - GM: G-CO.A, GM: G-CO.B
|             | - GM: G-CO.C.9, GM: G-CO.C.10 – Theorems include, but are not limited to, the examples listed in standards.
|             | - GM: G-CO.D
|             | - GM: G-SRT.A
|             | - GM: G-SRT.B |

| LEAP.II.GM.3 | Present solutions to multi-step problems in the form of valid chains of reasoning, using symbols such as equals signs appropriately (for example, rubrics award less than full credit for the presence of nonsense statements such as $1 + 4 = 5 + 7 = 12$, even if the final answer is correct), or identify or describe errors in solutions to multi-step problems and present corrected solutions. Content scope: Knowledge and skills in
|             | - GM.G-SRT.C.8, GM: G-GMD.A.3 |

| LEAP.II.GM.4 | Use a combination of algebraic and geometric reasoning to construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures about geometric figures. Content scope: Knowledge and skills in
|             | - Algebra content from Algebra I course and Geometry content from the Geometry course
|             | - G-GPE.B.6, GM: G-GMD.A.3 |
### Assessable Content Statements for the Modeling & Applications Reporting Category (Type III)

**LEAP 2025 Evidence Statements**

| LEAP.III.GM.1 | Solve multi-step contextual problems with degree of difficulty appropriate to the course. Content scope: Knowledge and skills in  
| LEAP.III.GM.2 | Solve multi-step contextual problems with degree of difficulty appropriate to the course involving perimeter, area, or volume that require solving a quadratic equation.  
|               | • Tasks do not cue students to the type of equation or specific solution method involved in the task.  
| LEAP.III.GM.3 | Solve multi-step contextual word problems with degree of difficulty appropriate to the course. Content scope: Knowledge and skills in  
|               | • GM: G-SRT.C.8, involving right triangles in an applied setting. Tasks may, or may not, require the student to autonomously make an assumption or simplification in order to apply techniques of right triangles.  
| LEAP.III.GM.4 | Micro-models: Autonomously apply a technique from pure mathematics to a real-world situation in which the technique yields valuable results even though it is obviously not applicable in a strict mathematical sense (e.g., profitably applying proportional relationships to a phenomenon that is obviously nonlinear or statistical in nature). Content Scope: Knowledge and skills articulated in GM.G-SRT.C.8, GM: G-GMD.A.3.  
| LEAP.III.GM.5 | Reasoned estimates: Use reasonable estimates of known quantities in a chain of reasoning that yields an estimate of an unknown quantity. Content Scope: Knowledge and skills articulated in G-GPE.B.6, GM: G-GMD.A.3.  

---

### APPENDIX B

**Answer Key/Rubrics for Sample Items**

<table>
<thead>
<tr>
<th>Item Type</th>
<th>Key</th>
<th>Alignment</th>
</tr>
</thead>
</table>
| 4-point Type I Task: Multiple-Choice, Multiple-Select, Technology-Enhanced Drop-Down Menu | Part A: B  
Part B: D, H  
Part C:  
The reason for the statement in step 2 is that  
[if two parallel lines are cut by a transversal, then alternate interior angles are congruent]  
Part D:  
The appropriate reason for the statement in step 5 is the [substitution property of equality] | LEAP.I.GM.1 |

---

1 For example: An artist wants to build a right-triangular frame in which one of the legs exceeds the other in length by 1 unit, and in which the hypotenuse exceeds the longer leg in length by 1 unit. Use algebra to show that there is one and only one such right triangle, and determine its side lengths.

2 For example, a configuration of three buildings might form a triangle that is nearly, but not quite, a right triangle; then, a good approximate result can be obtained if the student autonomously approximates the triangle as a right triangle.
<table>
<thead>
<tr>
<th>Item Type</th>
<th>Key</th>
<th>Alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-point Type I Task: Short Answer</td>
<td>Part A: 136</td>
<td>GM: G-C.A.2</td>
</tr>
<tr>
<td></td>
<td>Part B: 68</td>
<td></td>
</tr>
<tr>
<td>1-point Type I Task: Technology-Enhanced Drag-and-Drop</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Similar to Triangle ABC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Multiply each side length by 3.5. Divide each side length by 0.75.</td>
<td>GM: G-SRT.A.2</td>
</tr>
<tr>
<td></td>
<td>Not Similar to Triangle ABC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Add 12 to each side length. Subtract 2 from each side length.</td>
<td></td>
</tr>
<tr>
<td>1-point Type I Task: Technology-Enhanced Coordinate Grid</td>
<td></td>
<td>GM: G-GPE.B.6</td>
</tr>
<tr>
<td>3-point Type II Task: Constructed-Response</td>
<td>see rubric</td>
<td>LEAP.II.GM.1</td>
</tr>
<tr>
<td>6-point Type III Task: Constructed-Response</td>
<td>see rubric</td>
<td>LEAP.III.GM.1</td>
</tr>
</tbody>
</table>
Type II Constructed-Response Rubric

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
</table>
| 3     | Reasoning component: 2 points  
  o Determination that the figure is a parallelogram  
  o Valid explanation of equal lengths for pairs of opposite sides or valid explanation of parallel sides  
  Computation component: Correct computation of slopes or lengths  
  Sample Student Response:  
  A four-sided figure with opposite sides parallel meets the conditions for a parallelogram. The side $OT$ lies on the x-axis, which is horizontal. Therefore, its slope is 0. Side $PS$ also lies on a horizontal line because each endpoint has the same y-coordinate. Therefore, it also has slope 0. Because the two sides have the same slope, they must be parallel. The side $OP$ lies on a line with slope $\frac{b-0}{a-0} = \frac{b}{a}$ Side $TS$ lies on a line with slope $\frac{b-c-c}{a+c-c} = \frac{b}{a}$. Because both sides have the same slope, they are parallel. Therefore, the figure is a parallelogram.  
  OR:  
  A four-sided figure with opposite sides the same length meets the conditions for a parallelogram. The endpoints of side $OT$ have the same y-coordinate, so its length is the difference of the x-coordinates, $c - 0 = c$. The endpoints of side $PS$ have the same y-coordinate, so its length is the difference of the x-coordinates, $+c - a = c$. Therefore, opposite sides have the same length. The length of side $OP$ is $\sqrt{(a-0)^2 + (b-0)^2} = \sqrt{a^2 + b^2}$, found by using the distance formula. (Note: student could use a right triangle argument). The length of side $TS$ is $\sqrt{(a+c-c)^2 + (b-0)^2} = \sqrt{a^2 + b^2}$. Opposite sides have the same length therefore; the figure is a parallelogram.  |
| 2     | Student response includes 2 of the 3 elements. |
| 1     | Student response includes 1 of the 3 elements. |
| 0     | Student response is incorrect or irrelevant. |

Type III Constructed-Response Rubric

<table>
<thead>
<tr>
<th>PART A</th>
<th>Description</th>
</tr>
</thead>
</table>
| Score  | Computation component: Correct volume of 384 cubic inches for the stones  
  Modeling component: Correct work to support answer  
  Sample Student Response:  
  Because they are contained within the aquarium, the water and the combination of water and stones each have the shape of a rectangular prism. The formula for the volume $V$ of a rectangular prism is $V = lwh$, where $l$ is the length of the prism, $w$ is the width, and $h$ is the height.  
  Volume (stones) = Volume (stones + water) – Volume (water)  
  Volume (stones + water) = 16 in. $\times$ 8 in. $\times$ 7 in. = 896 in$^3$ and Volume (water) = 16 in. $\times$ 8 in. $\times$ 4 in. = 512 in$^3$  
  Volume (stones) = 896 in$^3$ – 512 in$^3$ = 384 in$^3$ So the volume of the stones is 384 cubic inches.  |
| 2     | Student response includes 1 of the 2 elements. |
| 1     | Student response includes 1 of the 2 elements. |
| 0     | Student response is incorrect or irrelevant. |
### PART B

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
</table>
| 3     | **Computation component:** 2 points  
  - Correct volume of the cube 343 cubic inches, the cylinder $200\pi \approx 628$ cubic inches, and the cone $\frac{325\pi}{3} \approx 340$ cubic inches  
  
  **Modeling component:** Correct work to support each volume calculation  
  
  **Sample Student Response:**  
  - **Volume for the cube:** Use the formula for the volume, $V = s^3$. $V = 7^3 = 343$ cubic inches  
  - **Volume of the cylinder:** Use the area formula for a circle to find the area, $B$, of the base, $B = \pi r^2$. $B = \pi (5)^2 = 25\pi$ square inches  
  Use the formula for the volume, $V$, of a cylinder, $V = Bh$. $V = (25\pi)(8) = 200\pi \approx 628$ cubic inches  
  - **Volume of the cone:** Use the area formula for a circle to find the area, $B$, of the base, $B = \pi r^2$. $B = \pi (5)^2 = 25\pi$ square inches  
  Use the formula for the volume, $V$, of a cone, $V = \frac{Bh}{3}$. $V = \frac{(25\pi)(13)}{3} = \frac{325\pi}{3} \approx 340$ cubic inches |
| 2     | Student response includes 3 of the 4 elements. |
| 1     | Student response includes 1-2 of the 4 elements. |
| 0     | Student response is incorrect or irrelevant. |

### PART C

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1     | **Modeling component:** Choice of the cylinder and a logical explanation for the choice.  
  
  **Sample Student Response:**  
  The stones have irregular shapes, so there will be some empty space between them when they are placed in the container. This means that the volume of the container must be a bit greater than 384 cubic inches. The volumes of the cube and the cone are less than the volume of the stones, so the stones will not fit inside either of these shapes. The volume of the cylinder is more than $1 \frac{1}{2}$ times the volume of the stones ($384 \times 1 \frac{1}{2} = 576$ and $628 > 576$). The stones will fit inside the cylinder. |
| 0     | Student response is incorrect or irrelevant. |
## APPENDIX C

<table>
<thead>
<tr>
<th>Date</th>
<th>Page</th>
<th>Summary of Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/2/19</td>
<td>1</td>
<td>Added Appendix C to list of internal links</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Added Spanish Math Guidelines to</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Renamed eDirect to DRC Insight Portal</td>
</tr>
</tbody>
</table>