Directions to the Student

Today you will be taking Session I of the Missouri Geometry Test. This is a test of how well you understand the course level expectations for Geometry.

There are several important things to remember:

1. Read each question carefully and think about the answer. Then choose the answer that you think is best.
3. If you do not know the answer to a question, skip it and go on. You may return to it later if you have time.
4. If you finish the test early, you may check over your work.
1. A student is working on a geometric construction.

If \( \overrightarrow{AD} \) is drawn, what geometric construction is shown?

A. angle bisector  
B. copying an angle  
C. perpendicular bisector  
D. measuring an angle

2. A sector is part of a circle’s area that is defined by a central angle. The ratio of the sector’s area, \( A \), to the circle’s area, \( \pi r^2 \), is identical to the ratio of the central angle, \( \theta \), to the total measure of the circle, 360°.

Which option represents the formula for the area of a sector?

A. \( A = \frac{360^\circ}{\theta} \pi r^2 \)  
B. \( A = \theta \pi r^2 \)  
C. \( A = 360^\circ \pi r^2 \)  
D. \( A = \frac{\theta}{360^\circ} \pi r^2 \)
3. Select the responses that correctly complete the sentence.

Given \( \triangle ABC \) with A(5, 4), B(2, -2), and C(7, -1).

\( \triangle ABC \) is classified as _________ because ___________________.

- scalene
- all three sides are congruent
- isosceles
- two of the sides are congruent
- equilateral
- no two sides are congruent

4. Point P is between D(2, 5) and F(5, -1). What are the coordinates of P along the directed DF if the ratio of DP to PF is 1:2?

Enter the correct coordinates in the boxes.

Value of the x-coordinate: 

Value of the y-coordinate: 

Go On ➤
5. Given quadrilateral ABCD, what are the coordinates for the resulting image, A”B”C”D”, after the two transformations listed?

First transformation: Rotate 90° clockwise about the origin.

Second transformation: Translate (x + 1, y – 2).

Enter the coordinates for the resulting image A”B”C”D” in the boxes.

A” = ( , )
B” = ( , )
C” = ( , )
D” = ( , )
6. The following table provides a list of four international cities, their populations, and the area of the cities.

<table>
<thead>
<tr>
<th>City/Urban Area</th>
<th>Country</th>
<th>Population (in million people)</th>
<th>Area (square miles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tokyo</td>
<td>Japan</td>
<td>33.2</td>
<td>2,697</td>
</tr>
<tr>
<td>Sao Paulo</td>
<td>Brazil</td>
<td>17.7</td>
<td>759</td>
</tr>
<tr>
<td>Seoul</td>
<td>Korea</td>
<td>17.5</td>
<td>405</td>
</tr>
<tr>
<td>Mexico City</td>
<td>Mexico</td>
<td>17.4</td>
<td>799</td>
</tr>
</tbody>
</table>

Determine the population densities of each city and then order them from least to greatest. Which list shows the population densities of each city in order from least to greatest?

A. Mexico City, Sao Paulo, Seoul, Tokyo
B. Sao Paulo, Tokyo, Seoul, Mexico City
C. Seoul, Sao Paulo, Mexico City, Tokyo
D. Tokyo, Mexico City, Sao Paulo, Seoul
7. The endpoints of $\overline{AB}$ are $A(1, 2)$ and $B(5, 6)$. Line $k$ is the perpendicular bisector of $\overline{AB}$.

Graph $\overline{AB}$ and line $k$. 

![Graph of AB and line k]
8. What are the possible cross sections of a right circular cone? Select all that apply.

A. ellipse
B. triangle
C. circle
D. parabola
E. rectangle

9. Olivia is constructing the circumscribed circle of a triangle as shown in the diagram. What should be her next step in the process?

A. Construct the angle bisector of $\angle A$.
B. Construct the perpendicular bisector of $BC$.
C. Set the compass width to $AB$, then draw a circle with center point $A$.
D. Set the compass width to $BC$, then draw a circle with center point $C$. 
10. Given: \(JM\) is the perpendicular bisector of \(LK\)

Prove: \(J\) is equidistant from \(L\) and \(K\)

Mark the letters in the table for the statements that complete the proof correctly.

<table>
<thead>
<tr>
<th>Statements</th>
<th>Reasons</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. (JM) is the perpendicular bisector of (LK)</td>
<td>1. Given</td>
</tr>
<tr>
<td>2. (\angle LMJ) and (\angle JMK) are right angles</td>
<td>2. (A\ B\ C\ D\ E\ F)</td>
</tr>
<tr>
<td>3. (A\ B\ C\ D\ E\ F)</td>
<td>3. All right angles are congruent</td>
</tr>
<tr>
<td>4. (LM \equiv MK)</td>
<td>4. Definition of bisector</td>
</tr>
<tr>
<td>5. (A\ B\ C\ D\ E\ F)</td>
<td>5. Reflexive property of equality</td>
</tr>
<tr>
<td>6. (\triangle LMJ \equiv \triangle KMJ)</td>
<td>6. SAS</td>
</tr>
<tr>
<td>7. (\overline{LJ} \equiv \overline{JK})</td>
<td>7. (A\ B\ C\ D\ E\ F)</td>
</tr>
<tr>
<td>8. (J) is equidistant from (L) and (K)</td>
<td>8. Definition of equidistant</td>
</tr>
</tbody>
</table>

A. \(\angle LMJ \equiv \angle JMK\)

B. Definition of right angle

C. Corresponding parts of congruent triangles are congruent.

D. Definition of perpendicular

E. \(\angle LMJ \equiv \angle KJM\)

F. \(JM \equiv JM\)
11. A circle has its center at \((-2, 3)\) and point \(4, 6)\) is on its circumference. What is the correct written equation of the circle?

A. \((x + 3)^2 + (y - 2)^2 = 85\)
B. \((x - 3)^2 + (y + 2)^2 = 45\)
C. \((x - 2)^2 + (y + 3)^2 = 85\)
D. \((x + 2)^2 + (y - 3)^2 = 45\)

12. Draw a line from the words to the correct descriptions. Not all options will be used.

Circle

Line

Angle

Line Segment

Ray

the set of points extending in one direction in a plane

the set of points between two endpoints in a plane

the set of all points the same distance from a given point in a plane

the set of points extending in opposite directions in a plane
13. Triangle $ABC$ is shown. The lengths of the sides of the triangle are represented by $a$, $b$, and $c$.

Select the next step that is needed to derive the equation for the area of triangle $ABC$ when sides $BC$, $AC$, and the included angle $C$ are given.

Step 1: $A = \frac{1}{2}bh$

Step 2: $\sin C = \frac{h}{a}$

Step 3: __________
- $h = \frac{(2A)}{b}$
- $a = h \cdot \sin C$
- $\cos C = \frac{a}{h}$
- $h = a \cdot \sin C$

Step 4: $A = \frac{1}{2}ab \cdot \sin C$
14. Points A, B, and D lie on circle C.

Determine the measure of the indicated angles given that \( m \angle A = 30^\circ \).

Enter the measures in the boxes.

\( m \angle BCD = \) \_

\( m \angle ABD = \) \_

15. The right triangle shown is missing the lengths of two sides.

Enter the lengths of the two missing sides in the boxes below. Round your answers to the nearest tenth.

Length of the hypotenuse: \( \) \_

Length of the leg: \( \) \_

Go On ➤
16. Which of the following two-dimensional cross sections are circles? Select all that apply.

A. any cross section of a sphere
B. horizontal cross section of a cube
C. cross section of a cone parallel to its base
D. cross section of a cone perpendicular to its base
E. cross section of a right cylinder parallel to its base
F. cross section of a pyramid perpendicular to its base
17. Parallelogram ABCD is shown.

What are the values of $x$ and $y$?

Enter the correct values in the boxes.

$x = \underline{\hspace{2cm}}$

$y = \underline{\hspace{2cm}}$
18. On the coordinate plane, \( \triangle ART \) is shown with points \( R \) and \( T \) plotted on the \( y \)-axis.

What three-dimensional figure is created by rotating \( \triangle ART \) around the \( y \)-axis?

A. cone
B. sphere
C. cylinder
D. pyramid
19. Two triangles are shown.

Which is a true statement about the two triangles?

A. The triangles are not similar.
B. \( \triangle ABC \sim \triangle EDF \) by AA Similarity Postulate
C. \( \triangle ABC \sim \triangle FDE \) by SAS Similarity Postulate
D. \( \triangle ABC \sim \triangle FDE \) by AA Similarity Postulate

20. Select the values that correctly complete the sentence about the symmetry of a regular pentagon.

A regular pentagon has ____ lines of symmetry and

- 1
- 2
- 5
- 6

has __________ rotational symmetry.

- 60 degree
- 72 degree
- 108 degree
- 540 degree
21. A right cone has a diameter of 10 inches and a slant height of 13 inches. The cone is shown.

Which is the volume of the cone?

A. $100\pi$ in.$^3$
B. $400\pi$ in.$^3$
C. $\frac{325}{3}\pi$ in.$^3$
D. $\frac{1300}{3}\pi$ in.$^3$
22. ΔABC and ΔDEF are plotted on the coordinate plane shown.

Which conclusions can be made about ΔABC and ΔDEF if ΔABC is mapped onto ΔDEF by reflecting ΔABC over the y-axis and reflecting it over the x-axis? Select all that apply.

A. ΔABC ≅ ΔDEF
B. The corresponding sides are proportional: \( \frac{AB}{DE} = \frac{AC}{DF} = \frac{BC}{EF} \).
C. Reflecting ΔABC across the y-axis and then the x-axis yields the same transformation as rotating ΔABC 90° counterclockwise around the origin.
D. ΔABC ∼ ΔDEF
E. ΔABC is acute, but ΔDEF is obtuse.
F. All corresponding sides are congruent.

Go On ➤
23. Points A, B, D, and E lie on circle C.

What is the length of \( \widehat{ADB} \)?

A. \( \frac{8\pi}{3} \) in.
B. \( 4\pi \) in.
C. \( \frac{16\pi}{3} \) in.
D. \( 8\pi \) in.

24. Given \( \triangle ABC \sim \triangle FDE \), what are the values of \( x \) and \( y \)?

A. \( x = -1 \)
B. \( x = 2 \)
C. \( x = 4 \)
D. \( y = -2 \)
E. \( y = 2 \)
F. \( y = 23 \)
25. A candle maker has 301.59 cubic centimeters (cm³) of liquid wax to make cone-shaped candles. Each candle has a circular base with a diameter of 3 cm and a height of 5 cm. What is the maximum number of candles that can be made from the liquid wax?
A. 6
B. 7
C. 25
D. 26

26. Which is the equation of the parabola with focus (2, 5) and directrix \( y = 3 \)?
A. \( y = -\frac{1}{2}x^2 - x + \frac{5}{2} \)
B. \( y = -x^2 + 5x - 20 \)
C. \( y = \frac{1}{4}x^2 - x + 5 \)
D. \( y = \frac{1}{2}x^2 + x + 6 \)
27. Britney found an irregularly shaped metal object on the beach that has a mass of 232.5 grams. To determine the volume, she partially filled a cylindrical water bottle and dropped the object in. The water level in the bottle rose by 1.2 cm. The bottle has a diameter of 5 cm. Calculate the density of the metal to determine what type of metal Britney found. Densities, measured in grams per cubic centimeter, \( \frac{g}{cm^3} \), for some common metals are listed.

- Copper: \( 8.86 \frac{g}{cm^3} \)
- Bronze: \( 9.87 \frac{g}{cm^3} \)
- Silver: \( 10.5 \frac{g}{cm^3} \)
- Gold: \( 19.3 \frac{g}{cm^3} \)

Select the word that correctly completes the sentence.

Based on the density of the metal, it is most likely that the metal Britney found is ____________.

- copper
- bronze
- silver
- gold
28. In $\triangle ABC$, $\angle B$ is a right angle. The coordinates for each point are $A(10, 7)$, $B(5, 9)$, and $C(3, 4)$.

Rounded to the nearest tenth, what is the area, in square units, of $\triangle ABC$?

Enter the area in the box.

(units$^2$)
After rotating \( \triangle ABC \) 180° about the origin and then reflecting it over the \( x \)-axis, what are the coordinates of \( \triangle A''B''C'' \)?

A. \( A''(2, 6), B''(5, 4), C''(2, 1) \)
B. \( A''(6, 2), B''(4, 5), C''(1, 2) \)
C. \( A''(-2, 6), B''(5, 4), C''(-2, 1) \)
D. \( A''(6, -2), B''(4, -5), C''(1, -2) \)
30. Right triangle ABC is shown.

What must be true about $\angle A$ and $\angle B$? Select all that apply.

A. $\angle A \cong \angle B$
B. $\angle A$ and $\angle B$ are complementary
C. $\angle A$ and $\angle B$ are supplementary
D. $\cos A = \cos B$
E. $\cos A = \sin B$
F. $\sin A = \cos B$
G. $\sin A = \sin B$
31. The pre-image of \( \triangle ABC \) and its image \( \triangle A'B'C' \) are shown on the coordinate plane.

Which rule describes the transformation represented in the graph?

A. \( \left( \frac{1}{2}x + 2, \frac{1}{2}y - 3 \right) \)

B. \( (2x + 2, 2y - 3) \)

C. \( \left( \frac{1}{2}x - 2, \frac{1}{2}y + 3 \right) \)

D. \( (2x - 2, 2y + 3) \)
32. Two angle measures for both \( \triangle ABC \) and \( \triangle XYZ \) are given.

Using the given information about the triangles, is \( \triangle ABC \sim \triangle XYZ \)?

A. Yes, the triangles are similar by AA.
B. No, because only 1 pair of corresponding angles are congruent.
C. No, we cannot determine similarity without knowing the third angles.
D. No, we cannot determine similarity without knowing the side ratios.
Directions to the Student

Today you will be taking Session II of the Missouri Geometry Test. This is a test of how well you understand the course level expectations for Geometry.

There are several important things to remember:

1. Read the performance event carefully and think about how to answer the question.

2. Show all of the work that you did to answer the question with a number 2 pencil. If a box is provided, make sure all of your work is in the box. If a line is provided to write your answer on, be sure your answer is on the line.

3. If you do not know the answer to a question, skip it and go on. You may return to it later if you have time.

4. If you finish the test early, you may check over your work.

5. Write or mark your answers directly in your test book with a number 2 pencil.
Teachers at Green High School have asked students which social media site they prefer. Students in two classes have been surveyed.

1. The following question has three parts. First, answer Part A. Second, answer Part B. Then, answer Part C.

Mr. Smith asked his class if they used either Social Media A, Social Media B, both, or neither. He compiled the results in a Venn diagram.

Part A
Use the Venn diagram to select the correct answers to complete the sentences.

Find $A \cup B =$ ___ students.

These are students that ____________.

- use both A and B
- use neither A nor B
- use either A or B or both
Find \( A \cap B = \underline{\ \ \ \ \ } \) students.

These are students that _________.

- use both A and B
- use neither A nor B
- use either A or B or both

Part B
What is the probability of selecting a student from Mr. Smith’s class at random who uses only Social Media A?

A. \( \frac{1}{8} \)

B. \( \frac{2}{3} \)

C. \( \frac{4}{13} \)

D. \( \frac{4}{15} \)

Part C
If a student from Mr. Smith’s class uses Social Media A, what is the probability they also use Social Media B?

A. 60%

B. 46.2%

C. 23.1%

D. 20%
2. The following question has two parts. First, answer Part A. Then, answer Part B.

Part A
Mrs. Krum’s class consists of freshmen and sophomores. She asked each student which social media platform they preferred and compiled the data into a two-way frequency table.

<table>
<thead>
<tr>
<th>Social Media Preference in Mrs. Krum’s Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
</tr>
<tr>
<td>Sophomore</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

Enter the answers in the boxes.

For freshmen, what is the probability that they prefer Social Media A?

For sophomores, what is the probability that they prefer Social Media A?
Part B

Which statement best reflects the data?

A. Both grades have the same social media preference.
B. Both grades are about evenly split in their social media preference.
C. Sophomores are more than three times as likely to prefer Social Media B than Social Media A.
D. Sophomores tend to prefer Social Media B more while freshmen generally prefer Social Media A.

3. Nationally, Company A claims that 62% of all high school students use their social media platform. Company B claims that their platform is used by 45% of all high school students. Assuming that these proportions are correct, and also assuming that using one or the other of the social media platforms are independent events, what percentage of high school students would be expected to use neither A nor B?

A. 34.1%
B. 27.9%
C. 20.9%
D. 17.1%
4. The following question has two parts. First, answer Part A. Then, answer Part B.

Part A
Pamela prefers Social Media A which allows posting multiple pictures to her profile. If Pamela has 7 pictures that she would like to put on her profile page, how many ways can Pamela arrange all 7 pictures in a single row on her page?

Enter the answer in the box.

Part B
Social Media B allows only 3 pictures to be posted at a time. How many ways can Pamela choose 3 pictures selected from the 7 pictures mentioned above if the order of the pictures selected does not matter?

Enter the answer in the box.
<table>
<thead>
<tr>
<th>Session</th>
<th>Item</th>
<th>Type</th>
<th>MLS Code</th>
<th>Answer</th>
<th>Point(s)</th>
<th>Point Breakdown</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>MC</td>
<td>G.CO.D.11</td>
<td>A</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>MC</td>
<td>G.C.B.5</td>
<td>D</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>MC</td>
<td>G.PE.B.3</td>
<td>Scalene, No two sides are congruent</td>
<td>1</td>
<td>• 1 point for 2 correct answers</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>SA</td>
<td>G.PE.B.5</td>
<td>3, 3</td>
<td>1</td>
<td>• 2 points for 4 correct answers</td>
</tr>
<tr>
<td>1</td>
<td>5</td>
<td>SA</td>
<td>G.CO.A.2</td>
<td>(1,7), (7,1), (5,-2), (3,0)</td>
<td>2</td>
<td>• 1 point for 3 or 2 correct answers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• 0 points for 1 or 0 correct answers</td>
</tr>
<tr>
<td>1</td>
<td>6</td>
<td>MC</td>
<td>G.MG.A.2</td>
<td>D</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>7</td>
<td>TE</td>
<td>G.PE.B.4</td>
<td>Graph of line segment AB, with endpoints A(1, 2) and B(5, 6). Graph of a line with a slope of -1 passing through point (3, 4).</td>
<td>2</td>
<td>• 1 point for the graph of a line through (3, 4), the midpoint of the segment.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>• 1 point for graphing a line having a slope of -1.</td>
</tr>
<tr>
<td>1</td>
<td>8</td>
<td>MS</td>
<td>G.GMD.B.3</td>
<td>A, B, C, D</td>
<td>2</td>
<td>• 2 points for 4 correct answers and 0 incorrect</td>
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<td>• 1 point for 3 correct answers and 0-1 incorrect</td>
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<td></td>
<td>• 0 points for all other scenarios</td>
</tr>
<tr>
<td>1</td>
<td>9</td>
<td>MC</td>
<td>G.CA.3</td>
<td>B</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>MS</td>
<td>G.CO.C.8</td>
<td>2B, 3A, 5C, 7F</td>
<td>2</td>
<td>• 2 points for 4 correct answers</td>
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<td>• 1 point for 3 correct answers and 0-1 incorrect</td>
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<td>• 0 points for all other scenarios</td>
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<tr>
<td>1</td>
<td>11</td>
<td>MC</td>
<td>G.PE.A.1</td>
<td>D</td>
<td>1</td>
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<tr>
<td>1</td>
<td>12</td>
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<td>G.CO.A.1</td>
<td>Letters = Left Column Numbers = Right Column A3, B4, D2, E1</td>
<td>2</td>
<td>• 2 points for 4 correct answers</td>
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<td>• 1 point for 4 correct and 1 incorrect</td>
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<tr>
<td>1</td>
<td>13</td>
<td>MC</td>
<td>G.SRT.C.8</td>
<td>$h = a \cdot \sin C$</td>
<td>1</td>
<td>• 2 points for 2 correct answers</td>
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<td></td>
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<td>• 1 point for 1 correct answer</td>
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<td>• 0 points for 0 correct answers</td>
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<tr>
<td>1</td>
<td>14</td>
<td>SA</td>
<td>G.CA.2</td>
<td>60, 90</td>
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<td>• 1 point for 1 correct answer</td>
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<td>• 0 points for 0 correct answers</td>
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<td>SA</td>
<td>G.SRT.C.7</td>
<td>10.4, 6.7</td>
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<td>• 1 point for 1 correct answer</td>
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<td>• 0 points for 0 correct answers</td>
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<td>16</td>
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<td>G.GMD.B.3</td>
<td>A, C, E</td>
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<td>• 1 point for 3 correct answers</td>
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<tr>
<td>Session</td>
<td>Item</td>
<td>Type</td>
<td>MLS Code</td>
<td>Answer</td>
<td>Point(s)</td>
<td>Point Breakdown</td>
</tr>
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