

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR GEOMETRY, END OF COURSE EXAM

(Test items developed for skills measured in ACTAAP*)

Skills

- | | | | |
|-----|--|-----|--|
| 1.0 | Patterns | 4.0 | Shape |
| 1.1 | Inductive/Deductive Reasoning | 4.1 | Similarity and Congruence |
| 1.2 | Logical Reasoning | 4.2 | Transformations |
| 2.0 | Dimensions | 5.0 | Size |
| 2.1 | One-Dimensional Figures | 5.1 | Segments and Angles |
| 2.2 | Two-Dimensional Figures | 5.2 | Perimeter and Circumference |
| 2.3 | Three-Dimensional Figures | 5.3 | Area and Surface Area |
| 2.4 | Relationships between 1-, 2-,
and 3-Dimensional Figures | 5.4 | Volume |
| 3.0 | Relationships | 5.5 | Relationships Between Perimeter,
Area, and Volume |
| 3.1 | Lines and Angles | | |
| 3.2 | Triangles | | |
| 3.3 | Polygons and Polyhedra | | |
| 3.4 | Circles and Spheres | | |

Number of questions: 60

Number of pages: 10

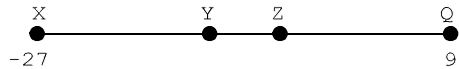
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ACTAAP PRACTICE TEST IN GEOMETRY - END OF COURSE EXAM

1. Everyone in the senior class likes rap music. Bill is a student in the class. Which statement is a valid conclusion based on the given information?
- A. Bill likes rap music.
 - B. Bill doesn't like rap music.
 - C. Bill likes rock and roll.
 - D. Bill plays in a band.

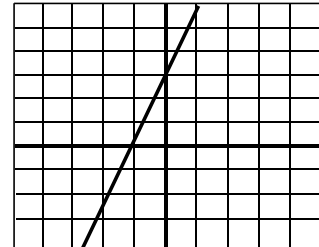
2. Using the number line below, what is the length of XZ if $XY = ZQ$ and $ZQ = \frac{1}{3} XQ$? The figure is not drawn to scale.



- A. 24
 - B. 19
 - C. 9
 - D. -24
3. Triangle XYZ is a right triangle and XY is the hypotenuse. Which of the following statements must be true?
- A. $XZ > ZY$
 - B. angle Y > angle X
 - C. angle Z may be equal to angle Y
 - D. $XY > ZY$
4. Assume triangle ABC is similar to triangle XYZ. $AB = 2$, $XY = 10$, and $XZ = 12$. What is the measure of AC?
- A. 240
 - B. 60
 - C. 2.4
 - D. 1.7
5. Use your ruler to measure the length of the line below. Measure to the nearest mm.
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- A. 3.5 mm
 - B. 8 mm
 - C. 34 mm
 - D. 83 mm

6. What is the supplement of an angle whose complement is 77 degrees?
- A. 13 degrees
 - B. 103 degrees
 - C. 167 degrees
 - D. 270 degrees

7. Which of the following equations represents the following line?



- A. $Y = X + 10$
 - B. $Y = 3X + 3$
 - C. $Y = -3X - 3$
 - D. $Y = 3X - 3$
8. What is the measure of one exterior angle of a regular hexagon?
- A. 60 degrees
 - B. 120 degrees
 - C. 360 degrees
 - D. 720 degrees
9. Which of the following figures will not tessellate a plane?
- A. square
 - B. regular hexagon
 - C. equilateral triangle
 - D. regular octagon
10. Which of the following statements is true concerning the ratio of the circumference of a circle to its diameter?
- A. circumference divided by diameter equals pi
 - B. circumference multiplied by radius equals pi
 - C. diameter divided by circumference equals pi
 - D. the major arc of the circle equals pi divided by the area