| Geometry Review Set 1 | |
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| Data: | |

- 9. The diagonal of a square is 48 centimeters. What is the length of a side of the square?
 - **A** $24\sqrt{2}$ cm
 - **B** $48\sqrt{2}$ cm
 - **C** 24 cm
 - **D** $12\sqrt{2}$ cm

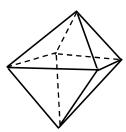
- 10. Which of the following can be used as a counterexample to disprove $n \le n^3$?
 - **F** n = -1
 - **G** n = 2
 - **H** n = 1.1
 - **J** n = 0.1
- 11. The radius of a cone is doubled to create a new cone. The height stayed the same. How will the volume of the new cone compare to the volume of the original cone?
 - **A** The volume of the new cone will be twice as large as the volume of the original cone.
 - **B** The volume of the new cone will be four times as large as the volume of the original cone.
 - **C** The volume of the new cone will be 2 cubic units larger than the volume of the original cone.
 - **D** The volume of the new cone will be eight times as large as the volume of the original cone.

- 12. If the measure of an exterior angle of a regular polygon is 20°, how many sides does the polygon have?
 - **F** 10
 - **G** 18
 - **H** 12
 - **J** 9
- 13. A segment has endpoints with coordinates (3, -7) and (-3, 5). What is the slope of the line that contains this segment?

Record your answer on the grid. Be sure to use the correct place value.

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14. How many vertices and edges does the polyhedron have?



- **F** 12 edges and 5 vertices
- ${f G}$ 8 edges and 6 vertices
- **H** 12 edges and 6 vertices
- J 12 edges and 8 vertices