

2 QUESTIONS PER STANDARD



By: Math in the Midwest

Name:	Date:	Hour:	
7 th Grade Mathematics Geometry			
1) Explain the meaning of the following: A scale on a map is 1 cm: 20 mi.	2) The scale of a draw scale drawing large	ring is 6 cm:2mm. Is the er or smaller than the lain your reasoning.	
3) Determine if the given information would form a unique triangle, many different triangles, or no triangles. Explain your reasoning. A. 5 in, 14 in, and 10 in	4) Determine if the following true, sometimes true A. Angles in a triangle have the B. A triangle can be formed good lengths.	he same measure.	
B. 7 cm and 11 cm 7. 5) Identify the figures below:	C. A triangle can be formed g lengths. G.3 6) Describe the cross-section intersection of a plane and a described in the follow. A. A plane intersects exactly cube. B. A plane intersects a right parallel to its rectangular	n that results from the right rectangular prism wing statements: three vertices of a	

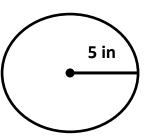
7th Grade Mathematics Geometry

7.G.4

7) Rhonda's circular garden needs to have new soil added for the spring. She knows the diameter of the garden is 12 feet. How

much total soil will she need to purchase?

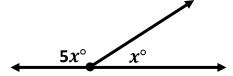
8) Determine the area and the circumference of the following image.



7.G.5

7.G.4

9) Write and solve an equation for x and find the measure of both angles.



7.G.5

10) Write and solve an equation given the following information:

A. The supplement of an angle is 45° more than the measure of the angle itself.

B. Angles 1 and 2 are complementary. The measure of angle 2 is 38° larger than the measure of angle 1.

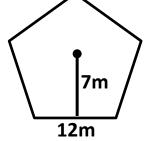
7.G.6

11) Calculate the volume of a triangular pyramid if the area of the base is 24 inches squared and the height is 8 inches.

7.G.6

12) Calculate the area of the following image:





7th Grade Mathematics Geometry

REFLECTION

geometry?

A. What do you feel like you understand the most ab	out
geometry?	

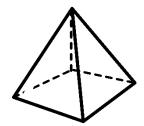
B. What is one area you would like to understand better about

C. CIRCLE the effort (10: MAXIMUM EFFORT) you gave and put a BOX (10: YOU COULD TEACH THIS TO SOMEONE ELSE) around how you would rate your UNDERSTANDING of the content using the number line below.

Name:	Date: Hour:		
7 th Grade Mathematics Geometry			
G.G.1 $ -$	G.1 — — — — — — — — — — — — — — — — — — —		
1) Explain the meaning of the following: A scale on a map is 1 cm: 20 mi. For every 1 cm on the map there are 20 miles of actual distance.	2) The scale of a drawing is 6 cm:2mm. Is the scale drawing larger or smaller than the actual object? Explain your reasoning. Larger because the first value, drawing length, is larger than the second value, actual length		
G.2 (7.	G.2		
<u> </u>			
3) Determine if the given information would form a unique triangle, many different triangles, or no triangles. Explain your reasoning.	4) Determine if the following statements are always true, sometimes true, or never true.		
A. 5 in, 14 in, and 10 in	A. Angles in a triangle have the same measure. Sometimes True		
Unique because 5 + 10 = 15 and 15 is greater than 14	B. A triangle can be formed given any two side lengths. Always True		
B. 7 cm and 11 cm			
Many different triangles because only two segment were given	C. A triangle can be formed given any three side lengths. Sometimes True		

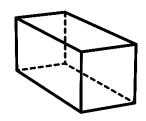
7.G.3

5) Identify the figures below:



7.G.3

Square Pyramid



Right Rectangular Prism

- 6) Describe the cross-section that results from the intersection of a plane and a right rectangular prism described in the following statements:
- A. A plane intersects exactly three vertices of a cube.

Triangle

B. A plane intersects a right rectangular prism parallel to its rectangular base.

Rectangle

7th Grade Mathematics Geometry

7.G.4

7.G.5

7.G.6

7) Rhonda's circular garden needs to have new soil added for the spring. She knows the diameter of the garden is 12 feet. How

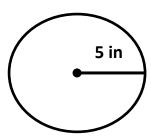
113.04 square feet

much total soil will she need to purchase?

8) Determine the area and the circumference of the following image.

Area = 78.5 square inches

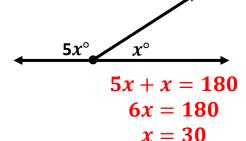
Circumference = 31.4 inches



7.G.5

7.G.4

Write and solve an equation for x and find the measure of both angles.



Angles are 30° and 150°

Write and solve an equation given the following information:

A. The supplement of an angle is 45° more than the measure of the angle itself.

$$x + (x + 45) = 180$$
 $x = 67.5$

B. Angles 1 and 2 are complementary. The measure of angle 2 is 38° larger than the measure of angle 1.

$$x + (x + 38) = 90$$
 $x = 26$

7.G.6

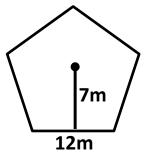
Calculate the volume of a triangular pyramid if the area of the base is 24 inches squared and the height is 8 inches.

64 inches cubed



Calculate the area of the following image:

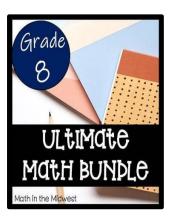
210 square meters



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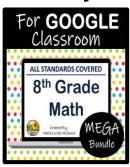
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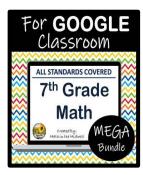
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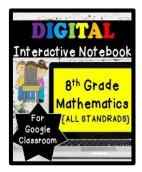


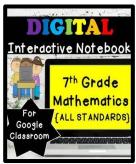


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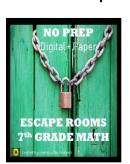




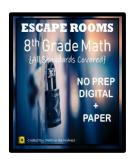




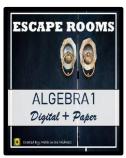
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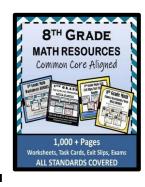


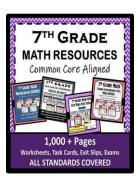






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