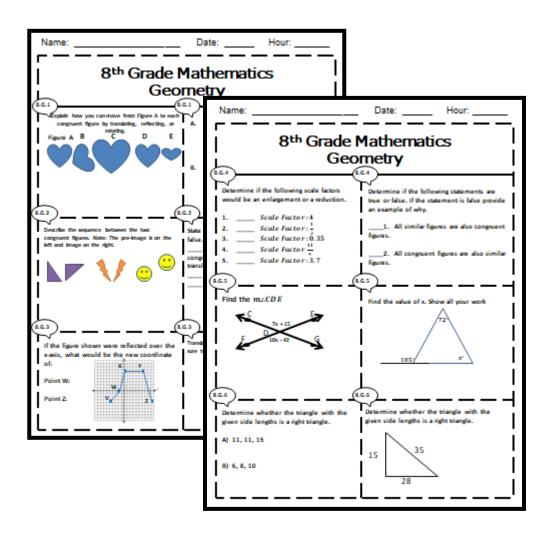
Grade

Geometry Exam



2 QUESTIONS PER STANDARD



By: Math in the Midwest

Name:		Date:	Hour:	
8 th Grade Mathematics Geometry				
•	u can move from Figure A to each ure by translating, reflecting, or rotating. D E	A. 1 B. R C. R B. What cha A. T B. R	rys the same after a: Translation otation eflection anges after a: ranslation otation eflection	
•	ence between the two . Note: The pre-image is on the	false1. A two congruent to a translations, ro2. Trans	dimensional figure is nother if it is obtained through otations, or reflections. lations turn an object. ctions flip an object	
	own were reflected over the ould be the new coordinate		owing triangle 4 left and 5 down. Be new image on the coordinate plane.	

(8.G.4

8.G.4

Determine if the following scale factors would be an enlargement or a reduction.

- _____ Scale Factor: 4
- ____ Scale Factor: $\frac{1}{2}$
- 3. _____ Scale Factor: 0.35
- 4. Scale Factor $\frac{11}{4}$
- _____ Scale Factor: 3.7

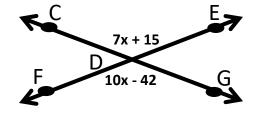
Determine if the following statements are true or false. If the statement is false provide an example of why.

- 1. All similar figures are also congruent figures.
- 2. All congruent figures are also similar figures.

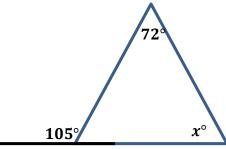
8.G.5

8.G.5

Find the $m \angle CDE$



Find the value of x. Show all your work



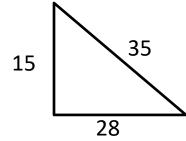
8.G.6

Determine whether the triangle with the given side lengths is a right triangle.

- A) 11, 11, 15
- B) 6, 8, 10

8.G.6

Determine whether the triangle with the given side lengths is a right triangle.



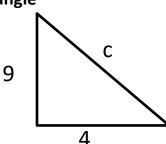
8.G.7

8.G.8

8.G.9

8.G.7

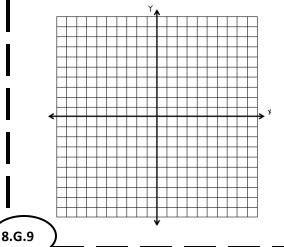
Find the missing side length in the right triangle

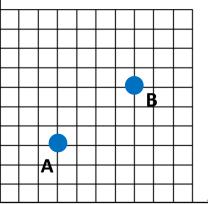


A baseball diamond is a square with sides of 90 feet. What is the distance to the nearest tenth of a foot between home and second base?

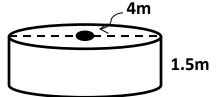
8.G.8

Find the distance between (6, -2) and (1, 7).





Find the volume of the following:



An ice cream cone has a diameter of 14.8 cm and a volume of 464.3 cm^3 . Find the height of the cone to the nearest tenth.

Name: _____ Date: ____ Hour: ____

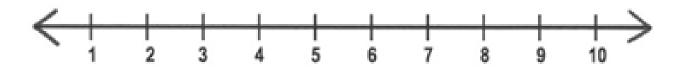
8th Grade Mathematics Geometry

REFLECTION

A. What do you feel like you understand the most about geometry?	
	_

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

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.



8.G.2

8.G.3

8.G.1 — — — — — — —

Explain how you can move from Figure A to each congruent figure by translating, reflecting, or

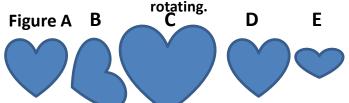


Figure B – Rotation Figure D - Translation

A. What stays the same after a:

- A. Translation size & shape
- B. Rotation size & shape
- C. Reflection size & shape

B. What changes after a:

- A. Translation placement of object
- B. Rotation-placement & direction
- C. Reflection-placement & direction

Describe the sequence between the two congruent figures. Note: The pre-image is on the left and image on the right.



8.G.2

Rotation



Reflection



Translation

State if the following statements are true or false.

_____1. A two dimensional figure is congruent to another if it is obtained through translations, rotations, or reflections.

F 2. Translations turn an object.

T 3. Reflections flip an object

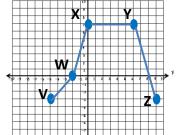
If the figure shown were reflected over the x-axis, what would be the new coordinate

of:

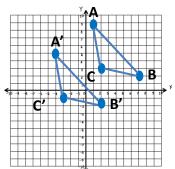
8.G.3

Point W: (-2, 0)

Point Z: (9, 3)



Translate the following triangle 4 left and 5 down. Be sure to label the new image on the coordinate plane.



8.G.4

8.G.5

8.G.6

8.G.4

Determine if the following scale factors would be an enlargement or a reduction.

- 1. E Scale Factor: 4
- 2. R Scale Factor: $\frac{1}{3}$
- 3. R Scale Factor: 0.35
- 4. $\frac{\mathsf{E}}{\mathsf{S}}$ Scale Factor $\frac{11}{\mathsf{A}}$
- 5. **E** Scale Factor: 3.7

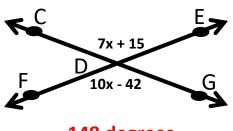
Determine if the following statements are true or false. If the statement is false provide an example of why.

False 1. All similar figures are also congruent figures.

True _____2. All congruent figures are also similar figures.

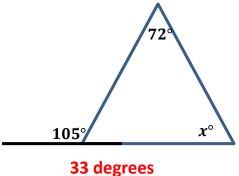
8.G.5

Find the $m \angle CDE$



148 degrees

Find the value of x. Show all your work



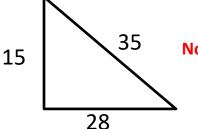
8.G.6

Determine whether the triangle with the given side lengths is a right triangle.

- A) 11, 11, 15 Not a right triangle
- B) 6, 8, 10

Right Triangle

Determine whether the triangle with the given side lengths is a right triangle.

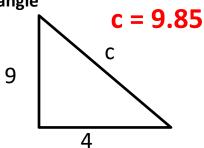


Not a right triangle

8.G.7

8.G.7

Find the missing side length in the right triangle



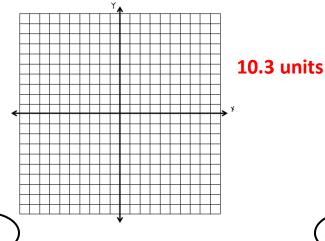
A baseball diamond is a square with sides of 90 feet. What is the distance to the nearest tenth of a foot between home and second base?

127.28 feet

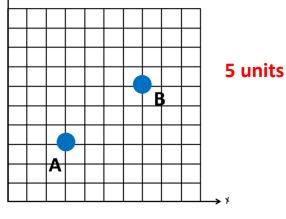
8.G.8

8.G.8

Find the distance between (6, -2) and (1, 7).



Find the distance between the two points shown on the coordinate plane:

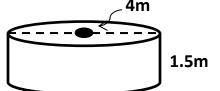


8.G.9

8.G.9

Find the volume of the following:

$$V = 18.84m^3$$



An ice cream cone has a diameter of 14.8 cm and a volume of $464.3cm^3$. Find the height of the cone to the nearest tenth.

8.1 cm



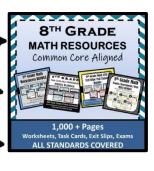
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