

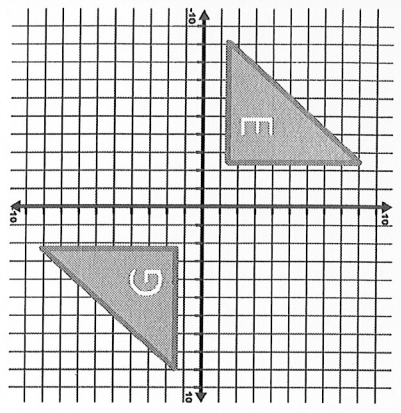
Days  
1 & 2

1. Determine the missing side length of a right triangle when given,  $a = 14$  and  $b = 7$ . Show your work.

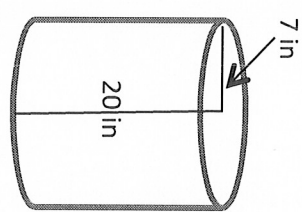
2. Describe the relationship between the volume of a cone and the volume of a cylinder.

3. Did a single transformation occur between E and G?

4. Justify your answer to #3.

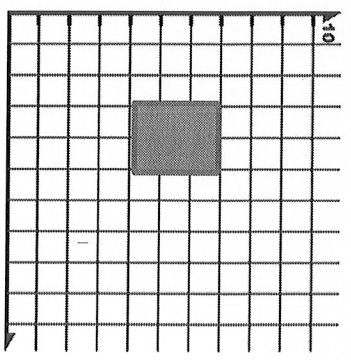
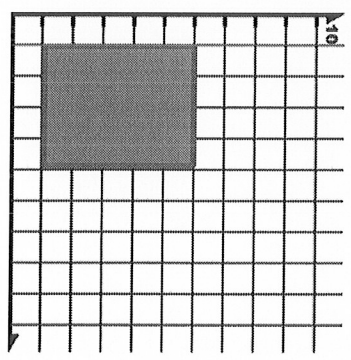


1. How much water can fill the bucket?



2. Triangle ABC is located at  $A(1, 4)$ ,  $B(6, 3)$  and  $C(5, -2)$ . After being translated 4 units left, what are the new coordinates of each point?

3. Are the figures similar? Explain. (2 points)



My score:

1 2 3 4

Dates \_\_\_\_\_ & \_\_\_\_\_

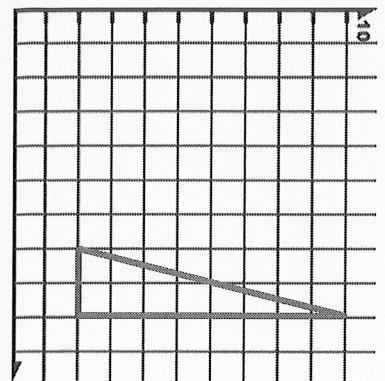
My score:

1 2 3 4

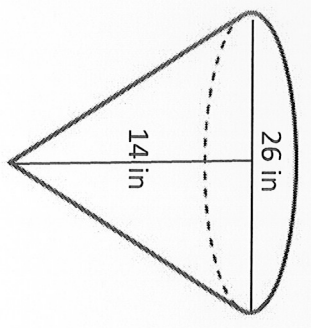
**Days**  
3 & 4

1. A flag pole is 22 feet tall and casts a shadow that is 15 feet long. How far is it from the end of the shadow to the top of the flag pole? Show your work.

2. Determine the length of the hypotenuse.



3. What is the volume of the cone below?

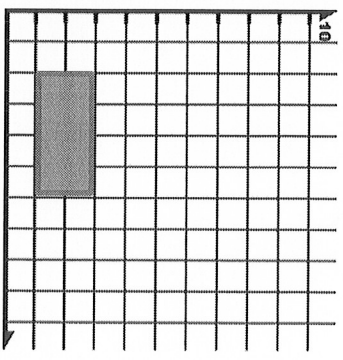
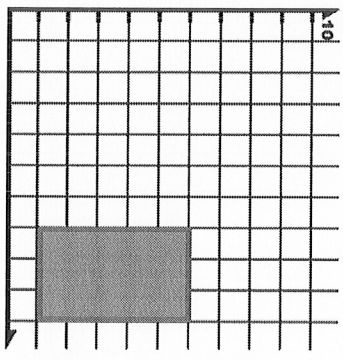


4. Triangle ABC is located at A(1, 4) B(6, 3) and C(5, -2). After being rotated 90° clockwise around the origin, what are the new coordinates of each point?

My score:

1    2    3    4

1. Are the figures congruent? Explain. (2 points)



2. Find the length of the straight line between (-1, -3) and (2, 6).

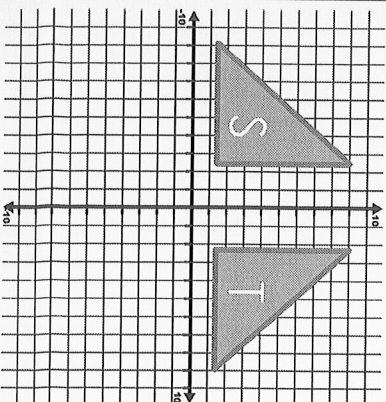
3. How much air can fill a basketball with a 10 inch diameter. Use 3.14 for  $\pi$ .

My score:

1    2    3    4

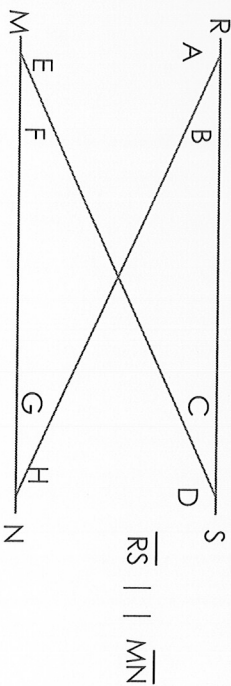
Dates \_\_\_\_\_ & \_\_\_\_\_

1. Which single transformation occurred between figures S and T?



2. Justify your answer to #1.

Use the diagram to answer to answer the next two questions.



- If  $m < B$  is  $36^\circ$ , what is the  $m < H$ ?
- If  $m < D$  is increased by  $10^\circ$ , what happens to  $m < E$ ?

My score:

1 2 3 4

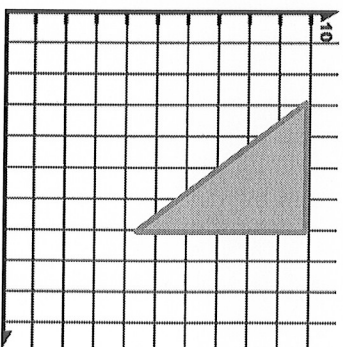
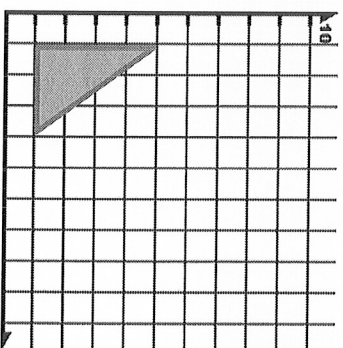
Days  
5 & 6

Dates \_\_\_\_\_ & \_\_\_\_\_

2. List two Pythagorean triples.

1. Triangle ABC is located at  $A(1, 4)$ ,  $B(6, 3)$  and  $C(5, -2)$ . After being reflected across the y-axis, what are the new coordinates of each point?

3. Are the figures similar? Explain. (2 points)



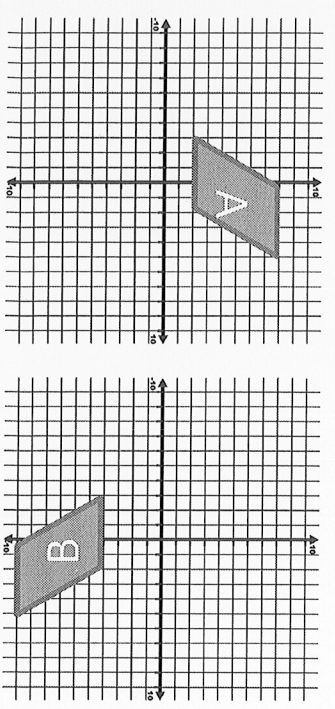
My score:

1 2 3 4

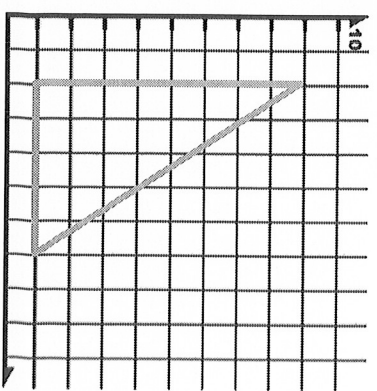


**Days  
7 & 8**

1. Describe a sequence of transformations that results in the transformation of figure A to figure B. (2 pts)

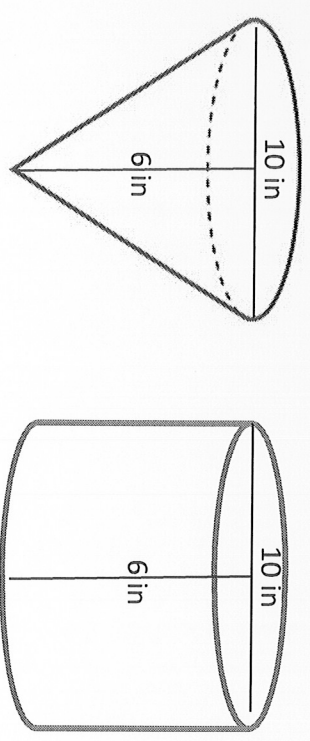


1. Determine the missing side length of a right triangle when given,  $b = 6$  and  $c = 9$ . Show your work.



2. Determine the length of the hypotenuse.

3. Compare the volume of the two figures below.



Dates \_\_\_\_\_ & \_\_\_\_\_

3. Trapezoid WXYZ is located at  $W(-2, -1)$   $X(-3, 5)$   $Y(-6, 5)$  and  $Z(-7, -1)$ . After being translated 9 units right, what are the new coordinates of each point?

4. What is the volume of a sphere with a 21 cm diameter? Use 3.14 for  $\pi$ .

My score: 1 2 3 4

My score: 1 2 3 4