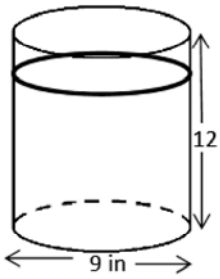
Geometry Final Free Response Review Name_____

Answer each problem completely.

- *Write your answers in complete sentences.*
- *Include units with your answers.*
- *Show your work clearly.*
- *Explain your thinking and work with complete sentences where appropriate.*
- *Round answers to nearest tenth if necessary.*

Free Response #1

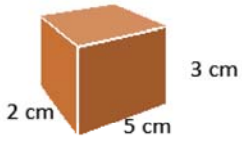


The water surface is 2.5 inches from the top of the can.

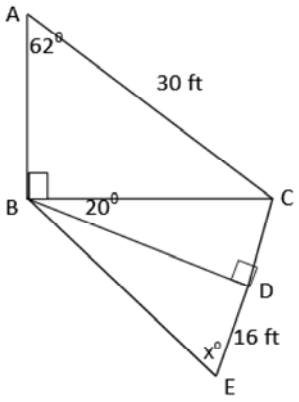
a) How much water is in the can?

b) You have 5 bottles of water that are 32 fluid ounces each. If you pour them all in will the can overflow? (1 cubic inch of water is 0.554 fluid ounces)

You bought a gift for your mom that came in the box below. You forgot to buy wrapping paper but you found a scrap of wrapping paper that measures 3 inches by 3 inches. Do you have enough to wrap the gift? (2.54 cm is equal to one inch.)



Free Response #2



a. Find $m\angle BCA$

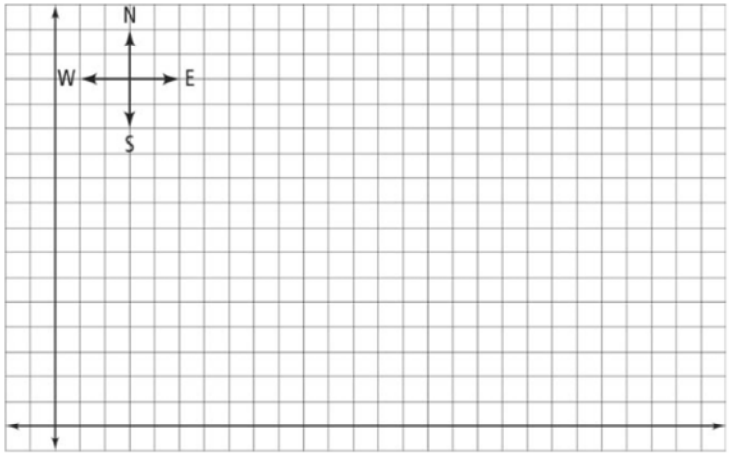
b. Find BC, CD, and BD.

c. Find x.

d. Find BE.

Free Response #3

Mary takes walks throughout her neighborhood every evening. She walks to the park which is 3 blocks due east from her house. She then walks along the edge of the park due north for 4 blocks to the playground. She continues due north for 6 blocks. She then turns due east and walks for 8 blocks. She then takes a path directly back to the playground. Then she returns directly to her house on a trail.



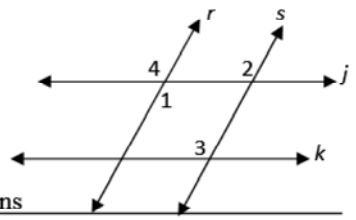
1. Use the coordinate grid above. Place Mary's house at the origin. Plot Mary's walking route.
2. How far does Mary walk every evening?

Free Response #4

Complete the following proof.

Given: $r \parallel s$ and $m\angle 1 = m\angle 3$

Prove: $j \parallel k$



Statements	Reasons