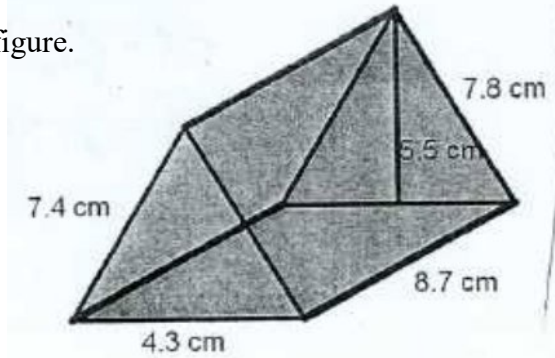Name:_____   March 9, 2020
Per #
Math 7XL

Problem Solving with Surface Area and Volume – HWK

1. Estimate the surface area of the following figure.

7.8 cm
5.5 cm
7.4 cm
8.7 cm
4.3 cm

2. Kellogg's has developed a new box for their cereal. The box is 12 inches long, 2.5 inches wide, and has a height of 15 inches. How much cereal can the new box hold?

3. In technology class, Steve is making a pencil holder in the shape of a cylinder. The holder is going to be 5.5 inches tall and its base has a radius of 1.5 inches. What is the surface area of the pencil holder? (Remember there is no top)

4. As part of the athletic department's attempt to save money this year the students at the high school designed 6 storage chests for equipment. Each chest was 4 feet long, 2.5 feet wide and 1.5 feet tall. The final step in completing the chests was to paint the outside of them navy blue. The paint was purchased in cans that each covers a total of 15 square feet. How many cans of paint do they need?

5. The soap dispensers in the bathrooms at the new Giants Stadium look like the one shown to the right. If a bottle of soap holds 1500 cubic inches of soap, how many dispensers can the custodial workers fill with one bottle at the stadium?