E# Volume & Surface Area: CLASSWORK

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| 8.7 The student will investigate and solve practical problems involving volume and surface area of prisms, cylinders, cones, and pyramids. |

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_ Block\_\_\_\_\_\_\_\_

Find the Surface Area and Volume for each figure…

1. Surface Area =\_\_\_\_\_\_\_ Volume = \_\_\_\_\_\_\_

7in

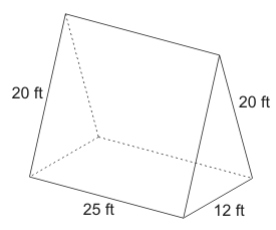
21 in

1. Surface Area =\_\_\_\_\_\_\_ Volume =\_\_\_\_\_\_\_

9ft

6ft

18 ft



Surface Area =\_\_\_\_\_\_\_ Volume =\_\_\_\_\_\_\_



1. Thelma and David built a recycling bin that is 6 feet wide, 12 feet long, and 14 feet high. How much trash can fit inside of the bin?
2. The cylindrical canister of a fire extinguisher has a radius of 4 inches and is 12 inches high. How many cubic inches can it hold?
3. Josh is wrapping a box that is 5 feet long 14 feet wide and 3 feet tall with wrapping paper. How much wrapping paper will he need to cover the box?
4. Adam is building a rectangular planter without a top. The planter will be 7 inches wide, 16 inches long, and 10 inches high. How much wood is needed to make the bottom and sides of the planter?