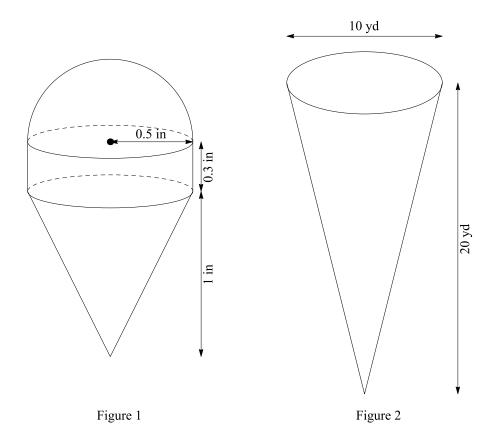
Handout 2: Scratching The Surface Area



- 1. Find the surface area of the solid in Figure 1.
- 2. Find the surface area of the solid in Figure 2.
- 3. Find the lateral and surface areas of a prism whose base is a right triangle with legs of length $8~\rm cm$ and $10~\rm cm$, and height is $18~\rm cm$
- 4. Find the lateral and surface areas of a cylinder with a diameter of 12 mm and a diagonal of 24 mm.

| 5. | Find the lateral and surface areas of a square pyramid with a side of 15 in and a slant height of 21 in. |
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| 6. | Find the lateral and surface areas of a cone with a height of 8 ft and a radius of 5.5 ft. |
| 7. | Find the surface area of a sphere with a diameter of 7 mm. |
| 8. | Your little brother wants to make a mask out of a cardboard cereal box. The box has measurements of 15 inches, 5 inches, and 3 inches. If you estimate your little brother's head as a sphere with circumference 18 inches, how many masks can the cereal box make? |
| 9. | If you get paid \$100 to paint the outside of a 30 ft \times 40 ft \times 25 ft house, how much money per cubic foot of paint are you earning? |
| 10. | Your dad has a silver paperweight in the shape of a small square pyramid which you decide to wrap with foil. How much foil will you need if the base of the square pyramid is 2 inches long and the height of the pyramid is 2 inches? |
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