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## Lesson 5 Problem-Solving Practice

## Surface Area of Cones

1. PARTY HATS Cone-shaped paper hats have a radius of 8 centimeters and the slant height is 20 centimeters. How many square centimeters of paper are needed to make each hat? Round your answer to the nearest tenth.

## 502.7 cm ${ }^{2}$

2. TRAFFIC CONES A 12-inch highway traffic cone is a "truncated cone". That is, a small cone is cut off the top. Calculate the lateral area of the truncated cone. Round to the nearest tenth. 197.7 in $^{2}$

3. SCOOPS Audrey uses a metal scoop to measure the correct amount of food to give to her horse. The scoop is shaped like a cone with a diameter of 6 inches and a slant eight of 8.5 inches. What is the lateral area of the cone? Round to the nearest tenth. $80.1 \mathbf{i n}^{2}$
4. COSTUMES Adrienne is making costumes for the school play. She needs to make eight medieval hats in the shape of cones. She wants each hat to be 18 inches for a slant height and the bases of have a diameter of 7 inches. How much material will she use to make the hats? Round to the nearest tenth. 1,583.4 in ${ }^{2}$
