

# That's a Wrap!

The Geometrics Stage Crew needs to promote the big show, so they are thinking of clever places to put posters, such as on trash cans. They are also going to give away CDs wrapped in sparkling paper.

**They will have to rely on some surface area formulas to get their promotion underway.**

- 1 The school has a lot of cylindrical trash cans that have a diameter of 3 feet and height of 4 feet. **What dimensions would a rectangular poster have to be to fit perfectly around the outer surface of the trash cans (not the top or bottom)? Give your answer using a decimal and then round it to the nearest half foot.**

- 2 **What is the surface area of the outer surface of the trash cans (not the top or bottom)? Give your answer using a decimal and then round it to the nearest square foot.**

- 3 The Geometrics Stage Crew is going to give away 100 CDs wrapped in sparkling paper to promote the big concert. To comfortably wrap a CD, they need paper to cover a length of 6 inches by a height of 5 inches and a width of .25 inches. **How many square inches of paper would be needed to wrap 100 CDs?**

- 4 Finally, The Geometrics' last album had a picture of a pyramid from Egypt on the cover. To promote this show, the stage crew wants to construct a pyramid tent in front of the school with a perfect square base of 100 square feet and a slant height measuring 10 feet. **How much square feet of fabric would the stage crew need to cover the structure, not including the base?**

