

## Block 4 ~ Exponents and Volume

*For use after Lesson 4.5*

## Ribbon for Sale

Name\_\_\_\_\_ Period\_\_\_\_\_ Date\_\_\_\_\_

A fabric store has  $5.5 \times 10^6$  inches of ribbon in stock.

1. How many spools of ribbon are in stock if each spool holds  $1.1 \times 10^2$  inches of ribbon? Show all work necessary to justify your answer.
2. The fabric store charges \$0.49 per yard of ribbon. How much would it cost to buy all the ribbon in the store? Show all work necessary to justify your answer.
3. Uma is working on an election campaign at school. She needs  $5 \times 10^{-2}$  yards of ribbon for each campaign pin. She has  $4 \times 10^3$  inches of ribbon. How many pins can she make? Use mathematics to justify your answer.