

PROBLEM-OF-THE-DAY: ALGEBRA 1**WEEK:** October 15 to October 19**DAY:** Monday

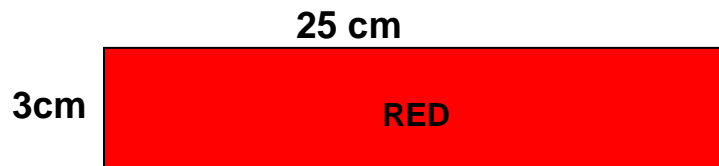
RISD Objective: Given a figure (including composite figures) and/or a word problem, students will find the area, applying it as necessary.

PROBLEM #39

The red and green rectangles below are the tops of jewelry boxes. You want to cover each of them with fancy paper.

a) Which jewelry box top, the red or the green, will require more paper?

b) How much more paper will you need to use?



MODEL SOLUTION #39

Since the jewelry box tops need to be covered, it means we are looking for the area of them.

$$A = bh$$

Area of red jewelry box top

$$A = (25)(3)$$

$$A = 75 \text{ cm}^2$$

Area of green jewelry box

$$A = (14)(4)$$

$$A = 56 \text{ cm}^2$$

- a) The red top will require more paper.
- b) $75 - 56 = 19$. We need to use 19 cm^2 more red paper than green paper.