

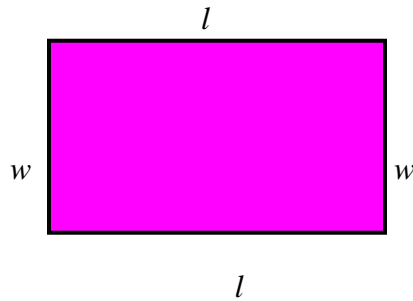
PROBLEM-OF-THE-DAY: ALGEBRA 1**WEEK:** October 8 to October 12**DAY:** Wednesday

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

PROBLEM #36

The area of a rectangle is 60 mm^2 and the width is 12 mm. What is the perimeter?

$$A = lw$$
$$P = 2l + 2w$$



MODEL SOLUTION #36

Since we don't know the length, we have to solve for l .

$$A = lw$$

$$60 = l \cdot 12$$

$$\frac{60}{12} = \frac{l \cdot 12}{12}$$

$$l = 5$$

Since the length is 5 mm and the width is 12 mm, now we can find the perimeter of the rectangle.

$$P = 2(5) + 2(12)$$

$$P = 10 + 24$$

$$P = 34 \text{ mm}$$

The perimeter of the rectangle is 34 mm.