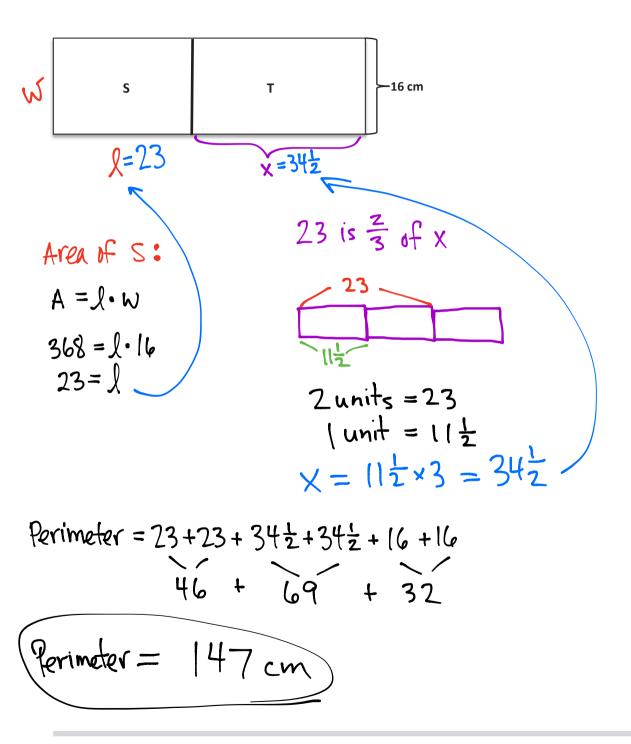
Name

Date \_\_\_\_\_

1. In the diagram, the length of Figure S is  $\frac{2}{3}$  the length of Figure T. If S has an area of 368 cm<sup>2</sup>, find the perimeter of the figure.



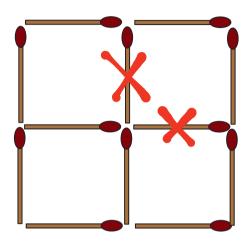


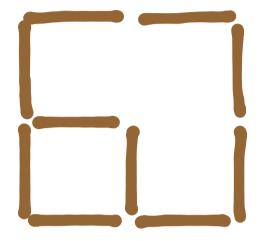
Lesson 23:

Make sense of complex, multi-step problems, and persevere in solving them. Share and critique peer solutions

The following problems are puzzles for your enjoyment. They are intended to encourage working together and family problem-solving fun and are not a required element of this homework assignment.

2. Take 12 matchsticks arranged in a grid as shown below, and remove 2 matchsticks so 2 squares remain. How can you do this? Draw the new arrangement.





(other solutions may be possible.)

3. Moving only 3 matchsticks makes the fish turn around and swim the opposite way. Which matchsticks did you move? Draw the new shape.

