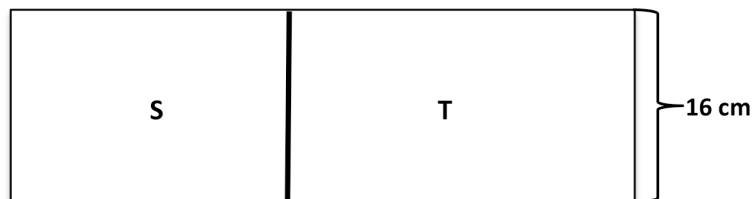


Name \_\_\_\_\_

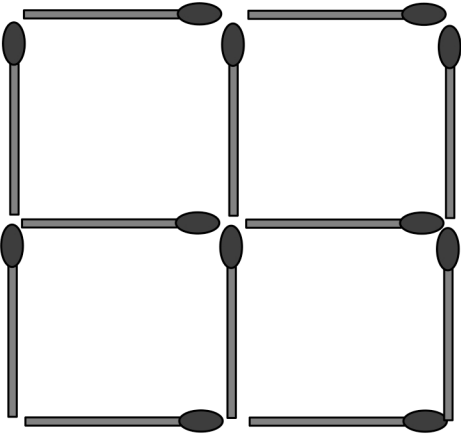
Date \_\_\_\_\_

In the diagram, the length of S is  $\frac{2}{3}$  the length of T. If S has an area of  $368 \text{ cm}^2$ , find the perimeter of the figure.

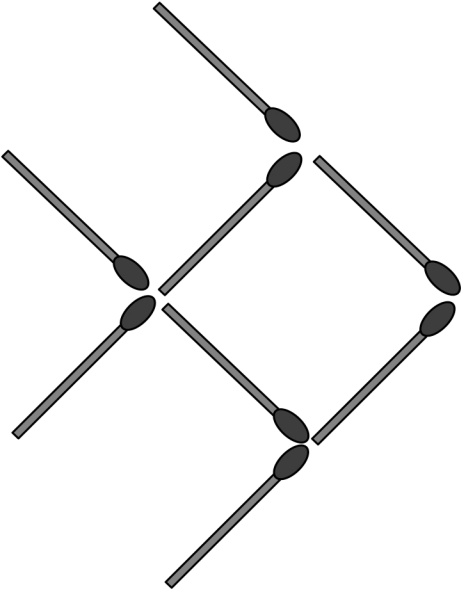


The following problems are puzzles for your enjoyment. They are intended to encourage working together and family problem solving fun and are not a required element of this homework assignment.

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.



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



## Answer Key

1.  $P = 147$  cm
2. Answers will vary.
3. Answers will vary.