Problem of the Week
Problem B
Do Please STOP It!

Problem
On the left below is the word STOP. On the right are six objects which may or may not be
the result of a transformation of the whole word STOP, i.e., one or more translations (slides),
reflections (flips), or rotations (turns).

Cross out the objects on the right which are NOT possible transformations of the whole word STOP.

Discuss your conclusions with one of your classmates, explaining your reasoning.

Solution
The solution and explanations are shown in the diagrams below.

Note: Other answers are possible. For example, object 4 could be regarded as
the result of a slide to the right of one width of the word, followed by a flip about
a vertical line at the left end of the word.