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Does It Fit?

A factory operated by a State Prison makes two kinds of signs like the ones shown below for the highway department:



1. Each “Danger” sign is shipped in a triangular padded envelope into which it just fits. How many different ways can a sign be put into its envelope? Explain your answer.

2. Each “School Zone” sign is shipped in a square padded envelope into which it just fits. How many different ways can a sign be put into its envelope? Explain your answer.