Lesson Plan for KNP Activity
M 4442.6: Missing Factor Move-It

Teacher Planning Notes:	

Task Group Number: 4442	**Task Group Name:** Pop Drop Move-It (2,4,8)
Strand: Multiplication and Division	**Activity Level and Color:** 6 Orange

KNP Activity Link with access to Printables and Student Instructions:
/knp/activity.php?id=4442.6&prefix=M

Numeracy Target: Extend and refine strategies for multiplication and division
[Numeracy Targets Chart](#)

Fluency Benchmark: KY.3.OA.7 Fluently multiply and divide within 100.

Kentucky Academic Standard(s): [KY.3.OA.4](#), [KY.3.OA.6](#)

Student-Friendly Learning Target: I am learning to solve missing factor equations where one factor is 8.

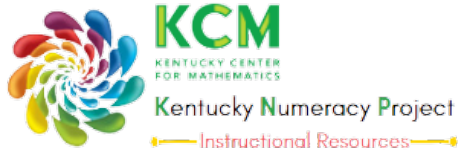**Suggested Student Grouping(s):** partners, small group

Materials: Move-It game board (numbers 1 through 10), popsicle sticks where each stick is labeled with one missing factor equation from the following list: _x8 = 8, _x8=16, ..._x8=80.

Activity Description: Missing Factor Move-It: Play Move-It according to standard directions. Sticks may be placed in a cup for game play. On a player's turn, the player will randomly draw 1 stick, solve for the missing number and cover the number. The stick should be returned to the cup or draw pile before the next player's turn.

Teacher Notes: Equations of the form 16 = _ x 8 may additionally be used. Missing Factor cards are included in the print link and may be used in place of the popsicle sticks. The teacher may choose to make missing factor sticks targeting different numbers such as 4 (e.g., __x4 = 8) or label sticks with division expressions. Dotted sticks may be used to check or work out solutions. For example, if solving _x8 = 24, student may set out 3 sticks (with 8 dots each) to verify the missing factor is 3. The blank Move-It game board (included in the print link) can be used to create customized variations.

Evidence of Learning (Diagnostic Assessment of Progress): Show student the equation " _ x 8 = 48" and say "Read this to me. What goes in the blank?" Repeat with similar equations.