**KNP ID # M 4443.3, Green**                                **Fluency Benchmark: KY.3.OA.7**

**Task Group: Multiplication and Arrays PowerPoint**

**Kentucky Academic Standard(s): <u>KY.3.OA.1</u>**

**Numeracy Target: Count items arranged in equal groups with only group markers visible (items with groups are not visible)**

# <u>Partially Screened Arrays Powerpoint</u>

**I am learning to determine how many items in all when items are arranged in an array but the items are hidden. I am also learning write an addition sentence and a multiplication sentence to match the picture.**

**Materials:**

M4443.3 PowerPoint

**Directions:**

1. Students will begin the activity by watching the Virtual Demo (read only file):
http://www.viethhosting.com/kcm/docs/M4443VirtualDemo.pptx

2. Students will next engage in the Introduction to Arrays PowerPoint while receiving guided instructions from their teachers. The Introduction to Arrays PowerPoint can be found under the Printable section:
http://knp.kentuckymathematics.org/knp/uploads/printables_4443.3M.pptx

*Note, arrays are a great setting for bringing out the commutative property of multiplication. For example, if we imagine rotating a 4x5 array, we will see that 4x5 = 5x4.