

Lesson Plan for KNP Activity

S 2204.5: Equivalent Expressions

Teacher Planning Notes:

Task Group Number: 2204

Task Group Name: Make Five/Ten

Strand: Structuring

Activity Level and Color: 5 Pink

KNP Activity Link with access to Printables and Student Instructions:

</knp/activity.php?id=2204.5&prefix=S>

Numeracy Target: Facile structures to 20

[Numeracy Targets Chart](#)

Fluency Benchmark: KY.2.OA.2 Fluently add and subtract within 20.

Kentucky Academic Standard(s): [KY.1.OA.6](#), [KY.2.OA.2](#)

Student-Friendly Learning Target: I am learning to find equivalent expressions.

Suggested Student Grouping(s): partners

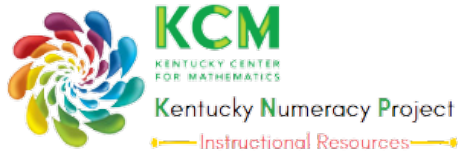
Materials: "Equivalent" game sheet, sheet protectors, wipe off markers

Activity Description: Place a transparent sheet protector over (or laminate) the Equivalent Expressions game sheet and place the game sheet between two students. One student chooses X and one chooses O. The students use X or O to mark adjacent frames that are equivalent (for example $10+4$ and $7+7$ make a pair). Play continues until all squares are marked. The winner is the player with the most squares marked.

Teacher Notes: Initially allow students to cooperatively circle pairs on one game board or work independently to find all of the pairs on a single game board. Ask questions such as "How do you know?" and "Is there an easier way to work that out?" Look for strategies that indicate student is using strategies such as chunking and bridging 10 (and is NOT counting to solve each individual expression). Expressions can be shown on a pair of 10 frames and then counters moved to illustrate the equivalence. An alternative speed version is to give each student a game board and students can race to circle all pairs on his/her game board.

Evidence of Learning (Diagnostic Assessment of Progress): Show student "10+4" and "9+5" and ask "Are these equivalent? How do you know?" Repeat with the pair "10+3" & "12+3" as well as other pairs.

KNP ID #S 2204.5



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