

Big Ideas Math® Game Closet



7 Not 11

Materials:

- Paper
- Pencil



Directions:

Use exactly seven 7's and the operations $+$, $-$, \times , and \div to write expressions that have values of 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10.

For example, $(777 - 777) 7 = 0$.

Who Wins?

The student that has the most expressions wins.

Possible Answers:

$(777 - 777) 7$	$= 0$
$(7 - (7 \times 7 - 7) \div 7) \times (7 \div 7)$	$= 1$
$((7 \times 7 \times 7) \div (7 \times 7) + 7) \div 7$	$= 2$
$(7 + 7 + 7 + 7) \div 7 - (7 \div 7)$	$= 3$
$(77 - 7) \div 7 - 7 + (7 \div 7)$	$= 4$
$(7 \times 7) \div 7 - (7 \div 7) - (7 \div 7)$	$= 5$
$(7 + 7 + 7 + 7 + 7 + 7) \div 7$	$= 6$
$(777 - 777) + 7$	$= 7$
$(7 \times 7) \div (7 \times 7) \times (7 \div 7) + 7$	$= 8$
$(7 \times 7) \div (7 \times 7) + (7 \div 7) + 7$	$= 9$
$(77 \div 7) - 7 + (7 - (7 \div 7))$	$= 10$