

CUT THE CLOCK

Math skills: Addition

You will need: Pen and paper

Difficulty level: 2

Introduction: We are going to "cut" the clock into 3 equal parts!

What to do:

- Draw a clock on the board.
- Ask your students to draw one on a piece of paper.
- Ask them to divide the clock with two straight lines (not crossing each other) so the sum of each part will be equal.

How it works: When you combine all the numbers on the clock you will get 78. Now you have to find 3 equal parts that will add up to $78:3=26$.

Why it works:

The numbers on the clock form the series 1,2,3,4,5 12. If you draw a line from between 12 and 1 to between 6 and 7, pairs of numbers opposite this line sum to 13, i.e. $12+1$, $11+2$, $10+3$, etc. When you cut the clock in 3 sections there must be $12:3=4$ numbers in each section, or two pairs in each section. Each pair adds to 13; 2 pairs add to 26.



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