Quiz:

The very first one appeared in a newspaper on September 11th, 1875. The very first what?

○ "Help Wanted" ad

○ Crossword Puzzle

○ <mark>Comic Strip</mark>

○ Weather map

○ Sports page

Problem

If the difference of two numbers is 10 and their product is 17, what is the sum of their squares?

145   ✗ 134

Hint

Solution:

Let a and b be the two numbers. Then,
$a - b = 10$ and $ab = 17$
Now, $(a - b)^2 = (a - b)(a - b) = a^2 - 2ab + b^2$
So, $10^2 = a^2 - 2(17) + b^2$
$100 + 34 = a^2 + b^2$
Thus, $a^2 + b^2 = 134$

Quote:

Whenever you find yourself on the side of the majority, it is time to pause and reflect. Mark Twain