Question

Sienna published 2/3 of the poems she wrote in a book. Additionally, she published 4 different poems in the newspaper. The total number of poems she published was 22. How many poems had Sienna written?

Solution

Let x be the number of poems Sienna published.

So

$$\frac{2}{3}x + 4 = 22$$

Subtract 4 from both sides of the equation

$$\frac{2}{3}x = 18$$

Divide both sides of the equation by $\frac{2}{3}$

$$x = 18 * \frac{3}{2}$$

Simplify

$$x = 27$$

Answer: Sienna had written 27 poems.