

Diaphantus' Age Solution:

Let x = Diaphantus' age.

Therefore, using the data, we can write:

$$\frac{x}{6} + \frac{x}{12} + \frac{x}{7} + 5 + 4 + \frac{x}{2} = x$$

And solving this equation we see that:

$$x = 84$$

Diaphantus was 84 years old when he died.