

August 2nd

Each year Grandma gives Nicola and Michael the same number of sweets, and they share them out in the ratio of their ages.

This year Nicola is 5 and Michael is 4, and Nicola is upset to find that she gets 5 less sweets this year compared to last year.

How many sweets do they receive from Grandma each year?



Last year, they were in the ratio 4:3

So Nicola got $\frac{4}{7}$ of the sweets

This is 5 more than the $\frac{5}{9}$ got this year.

$$\frac{4}{7} - \frac{5}{9} = \frac{1}{63}$$

Therefore 5 sweets is $\frac{1}{63}$ of the total

So grandma is (very generously!) giving out **315 sweets.**

(she might have a problem sharing them out next year....)