## [**Jessica Carrier**](https://ashford.instructure.com/courses/3058/users/32444)

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Jessica Carrier

MAT221: Introduction to Algebra

Gregory Dlabach

June 12, 2017

 Cowling’s Rule: a formula which converts an adult dose into a child’s dose using the child’s age. The formula is d = D ( a + 1)

 24

D = adult dose

d= child’s dose

a= child’s age

I chose to complete number 14:

|  |  |
| --- | --- |
| adult dose 400mg ibuprofen; 3 year old child | 800mg adult, 200mg child |

I thought this one would serve me well beings my twins are 3 years old.

d=400(3+1)

 24 Parenthesis first

d= 400(4)

 24 Multiply

d=1,600 Divide

 24

A 3 year old child would get 66.666… 67mg of ibuprofen

The second part of this formula:

200= 800mg(a+1)

 24

200(24)= 800mg(a+1)24 Divide all by 24

 24

4800= 19200(a+1) Divide both sides by 19,200

19200 19200

.25=a+1

.25 -1= a+1-1 Simplify and subtract 1-1

a+.25-1 Subtract

a= -.75

I was lost from dividing both sides by 19200. Don’t think my answer should be in the negative.