## Secondary puzzle - Thinking of numbers - Solutions

## Thinking of numbers.....

I am thinking of two numbers
My numbers are in the ratio 2:5
One number is 21 more than the other number
What are my two numbers ?

I am thinking of two numbers
My numbers are in the ratio 2:7
One number is 21 more than the other number
What are my two numbers?

I am thinking of two numbers
My numbers are in the ratio 2:7
The product of the two numbers is 686
What are my two numbers ?

## Solution: 14 and 35

\{There are 7 parts in total; one number has 3 more parts than the other part, so $21=3$ parts.
Therefore 1 part $=7\}$

## Solution : 8.4 and 29.4

\{There are 9 parts in total; one number has 5 more parts than the other part, so $21=5$ parts.
Therefore 1 part $=4.2\}$

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Solution: 14 and 49 or -14 and -49
{2:7 = 1:3.5, so y=3.5x
xy=686 so 3.5 x}\mp@subsup{x}{}{2}=68
x}=196\mathrm{ so }x=+/-14 and y=+/-49
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