

$$\begin{array}{r}
 M \ A \ T \ H \\
 A \ T \ H \\
 T \ H \\
 + H \\
 \hline
 5 \ 0 \ 0 \ 0 \\
 M + A + T + H = ?
 \end{array}$$

$$1000 M + 100 A + 10 T + H$$

$$100 A + 10 T + H$$

$$10 T + H$$

$$H$$

$$1000 M + 200 A + 30 T + 4 H = 5000$$

Vamos achar M , A , T e H naturais de 0 a 9.

$$\text{Ou } 4H = 0 \rightarrow H = 0$$

$$\text{Ou } 4H = 10 \rightarrow H = 2,5$$

$$\text{Ou } 4H = 20 \rightarrow H = 5$$

$$\text{Ou } 4H = 30 \rightarrow H = 7,5$$

$$H = 0 \rightarrow 3T = 0 \rightarrow T = 0 \rightarrow 2A = 0 \mid \text{Ou } A = 0 \rightarrow M = 5 \Rightarrow M + A + T + H = 5 \text{ (a)}$$

$$\mid \text{Ou } A = 5 \rightarrow 1 + M = 5 \rightarrow M = 4 \Rightarrow M + A + T + H = 9 \text{ (b)}$$

$$H = 5 \mid \text{Ou } 2 + 3T = 0 \rightarrow T = -2/3$$

$$\mid \text{Ou } 2 + 3T = 10 \rightarrow T = 8/3$$

$$\mid \text{Ou } 2 + 3T = 20 \rightarrow T = 6$$

$$\mid \text{Ou } 2 + 3T = 30 \rightarrow T = 28/3$$

$$T = 6 \mid \text{Ou } 2 + 2A = 0 \rightarrow A = -1$$

$$\mid \text{Ou } 2 + 2A = 10 \rightarrow A = 4$$

$$\mid \text{Ou } 2 + 2A = 20 \rightarrow A = 9$$

$$\mid \text{Ou } 2 + 2A = 30 \rightarrow A = 14$$

$$A = 4 \rightarrow 1 + M = 5 \rightarrow M = 4 \Rightarrow M + A + T + H = 19 \text{ (c)}$$

$$A = 9 \rightarrow 2 + M = 5 \rightarrow M = 3 \Rightarrow M + A + T + H = 23 \text{ (d)}$$

Respostas:

MATH	MATH	MATH	MATH
(a) 5000	4500	4465	3965
000	500	465	965
00	00	65	65
<u>0</u>	<u>0</u>	<u>5</u>	<u>5</u>
5000	5000	5000	5000