

All the digits 14/02/2024
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$$\begin{array}{r}
 \begin{array}{cccc}
 \underline{a} & \underline{b} & \underline{c} & \underline{d} \\
 & & & 3 \\
 \times & & & \\
 \hline
 \underline{e} & \underline{f} & \underline{g} & \underline{h} & \underline{i} \\
 & & & & \\
 & 8 & 2 & 6 & 7 \\
 & & & & 3 \\
 \hline
 2 & 4 & 8 & 0 & 1
 \end{array}
 \end{array}$$

d cannot be 5 or 0 or 1
 e can only be 1, 2

$$\begin{array}{l}
 d = \cancel{3} \quad d = 6 \quad d = 7 \quad d = 8 \quad d = 9 \\
 i = 2 \quad i = 8 \quad i = 1 \quad i = 4 \quad i = 7
 \end{array}$$

i can only be 1, 2, 4, 7, 8

if e=1, d has to be 4 or 6

if e=2, d has to be 7, 8, 9

if d=4, a and b have to be 5 or 6 → 4 5 9 6 fig 1

but ~~d~~ cannot be 6 because of fig 1
 and fig 2

$$\begin{array}{r}
 \overset{\checkmark}{9} \\
 \times 3 \\
 \hline
 13788
 \end{array}$$

if d=4, you can see that fig 3
 is correct. $4 \times 3 = 12$ so i
 is 2. this means e is 1
 and it is.

$$\begin{array}{r}
 \overset{\checkmark}{6} \\
 \times 3 \\
 \hline
 16488
 \end{array}$$

idea 1: d has to be odd (7, 9)

i will have to be (1, 7)

e ≠ 1

(come back)

(wrong)

$$\begin{array}{r}
 \overset{\checkmark}{4} \\
 \times 3 \\
 \hline
 17082
 \end{array}$$

After looking at if d=6, we can look at if d=4. If so, $4 \times 3 = 12$.
 That means that e cannot be 2 anymore, becoming a 1. If e
 is 1, a could only be 5 (1 will be used, 2 has already been used,
 3 is out of bounds and 4 has already been used). Now that we've
 gotten 4 and 5, we need the last consecutive number which is
 6 (not 3). that means the last number is 9 as the other sums
 were 2-digits. Nine is in c, and four is in d. This means the
 number is 5694.