

Year 6 Friday Maths Problems.

$$\begin{array}{r}
 1. \text{ a) } 664,046 \\
 + 627,144 \\
 + \quad 58,192 \\
 \hline
 1,349,382 \\
 \hline
 \end{array}$$

The total population is 1,349,382.

$$\begin{array}{r}
 \text{b) } \overset{5}{6} \overset{3}{8} \overset{1}{4},046 \\
 - 627,144 \\
 \hline
 036,902 \\
 \hline
 \end{array}$$

There are 36,902 more people in Athens than Crete.

$$\begin{array}{r}
 \text{c) } \overset{5}{6} \overset{6}{2} \overset{16}{7}, \overset{10}{1} 44 \\
 - 58,192 \\
 \hline
 568,952 \\
 \hline
 \end{array}$$

There are 568,952 more people in Crete than Corinth.

2. 2.66×60 . (60 minutes in an hour).

a) I know this is the same as:

$$\begin{array}{r}
 26.6 \\
 \times \quad 6 \\
 \hline
 159.6 \\
 \hline
 33
 \end{array}$$

It takes 159.6 minutes to fly to Athens.

b) 159.6×60 (60 seconds in a minute)

I know this is the same as:

$$\begin{array}{r}
 1596 \\
 \times \quad 6 \\
 \hline
 9576 \\
 \hline
 353
 \end{array}$$

It takes 9576 seconds to fly to Athens.

3. 10 million = 10,000,000.

a) 1% = 100,000

2% = 200,000.

There are 200,000 registered vegetarians in Greece.

b) $10,000,000 - 200,000$
 $= 9,800,000.$

There are 9,800,000 people who are not registered as vegetarians in Greece.

4. a) $96:100 \xrightarrow{\times 5} 480:500$ There would be 480 men.

$$\begin{array}{r} 96 \\ \times 5 \\ \hline 480 \\ 3 \end{array}$$

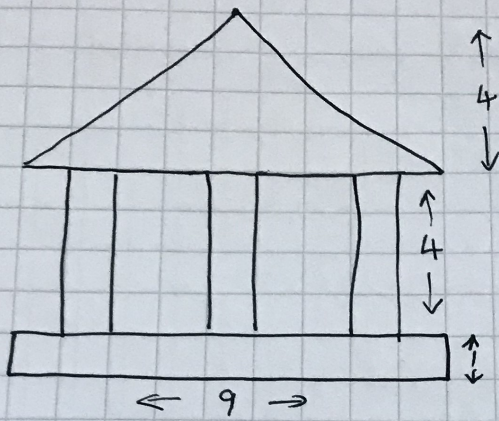
b) I can double my last answer, or multiply original ratio by 10.

There would be 960 men.

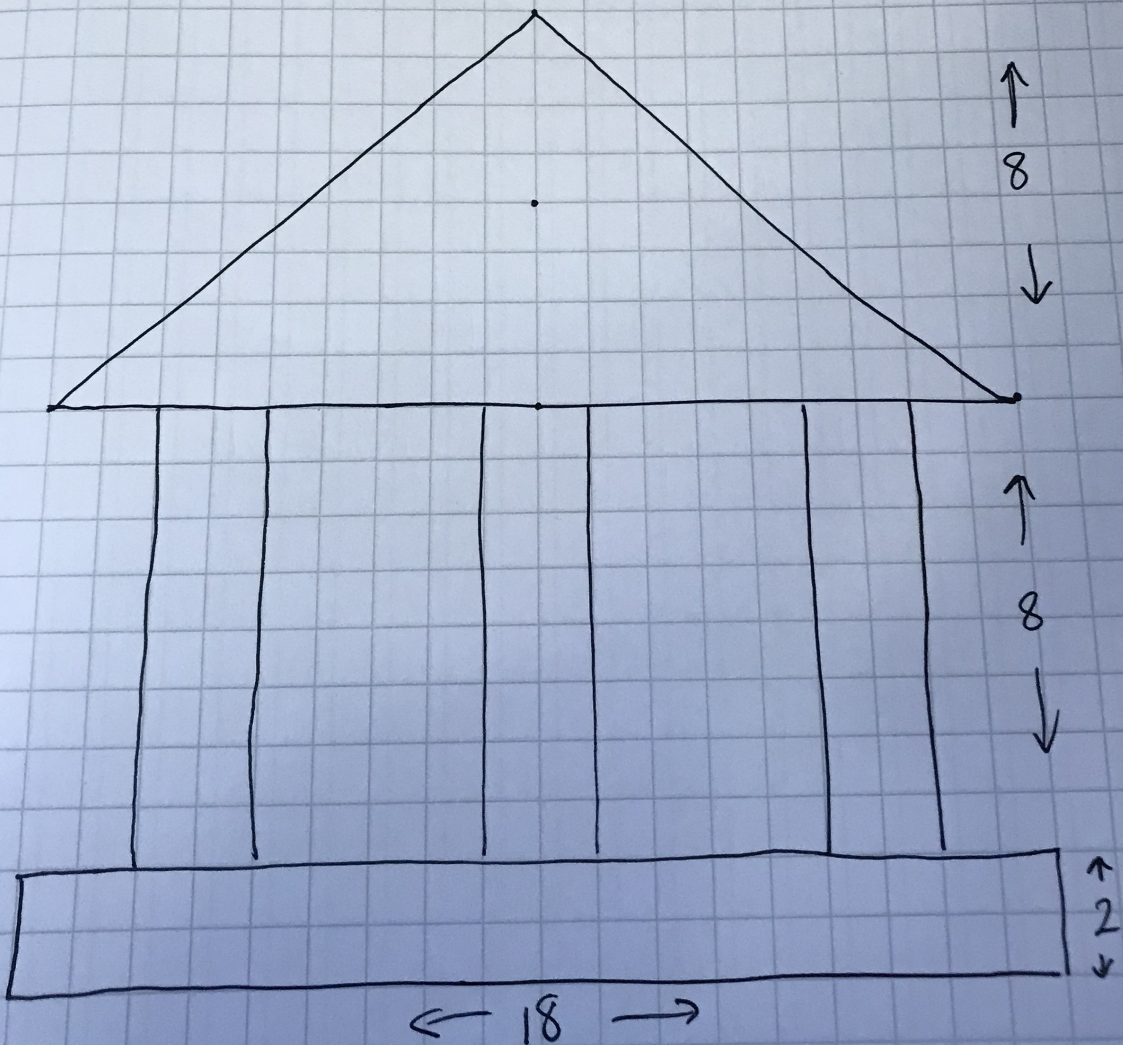
c) $96:100 \xrightarrow{\div 2} 48:50$ There would be 50 women.

d) I worked part of this out in c), but I can go further:

$$\begin{array}{r} 48:50 \\ \div 2 \downarrow \quad \downarrow \div 2 \\ 24:25 \end{array}$$



Enlarged by scale factor of 2:



Zac's Challenge Question.

Imagine 2 weeks:

M
T ✓
W
Th ✓
F
S ✓
Su
M ✓
T
W ✓
Th
F ✓
S
Su ✓

I will tick each time
she turns someone to
stone.

3 people are turned into stone on
each of these days.

Or quicker method:

2 weeks = 14 days

Every 2 days means half
of this so 7 ~~people~~ days.

$$7 \times 3 = 21.$$

So she turns 21 people to stone.