2/5

Fraction Quiz Tomorrow

$\frac{7}{8} + \frac{1}{6}$

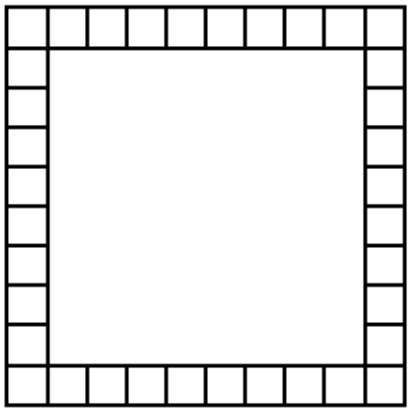
$\frac{21}{24}$ $\frac{3}{3}$ $\frac{4}{4}$ $\frac{4}{24}$

8, 16, 24

6, 12, 18, 24

$\frac{4}{24} + \frac{21}{24} = \frac{25}{24}$

$= \frac{1}{24}$

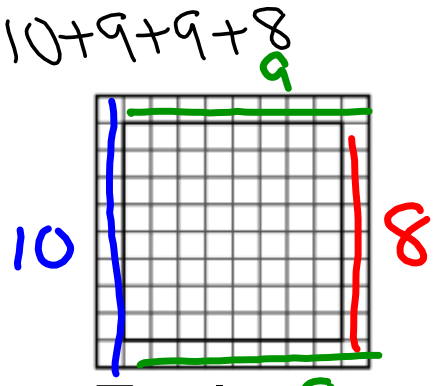


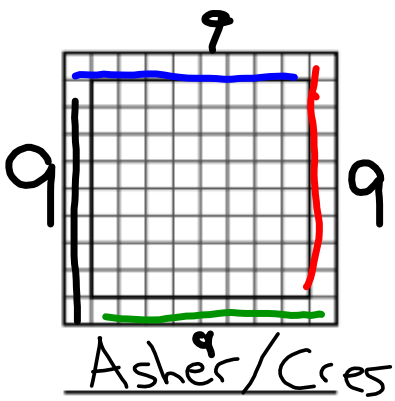
How many tiles does it take to build this frame?

~~40?~~

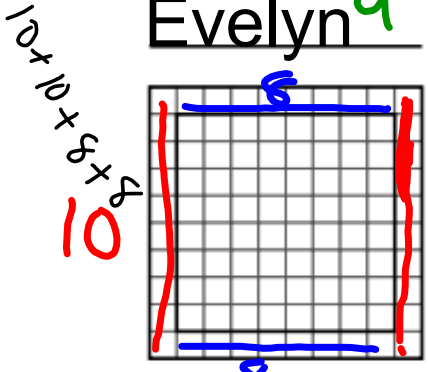
36!

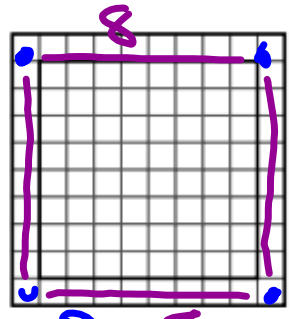
Period 1





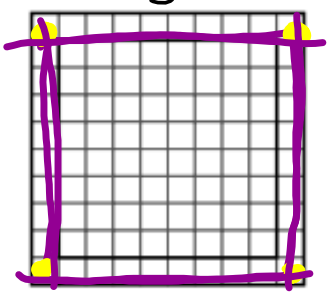
$9 \times 4 = 36$

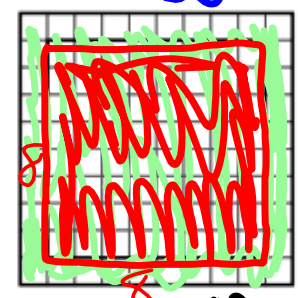




$4 \cdot 8 + 4$

$32 + 4$



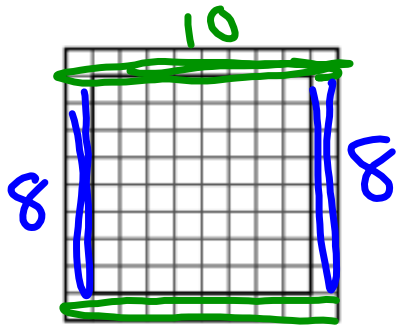


$10^2 - 8^2$

$100 - 64$

$40 - 4 = 36$

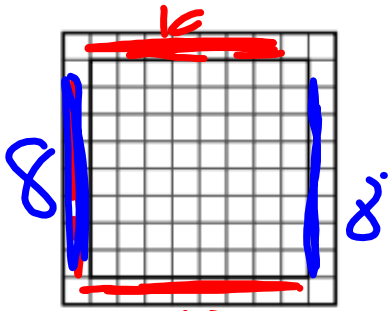
$10+10+8+8=36$



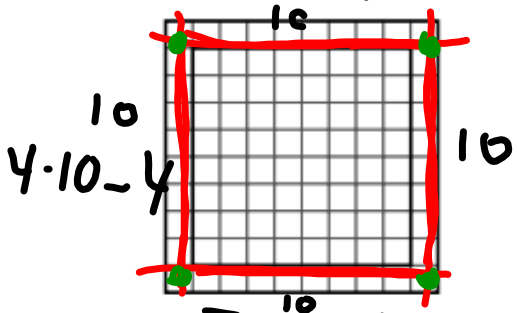
Erica

Period 2

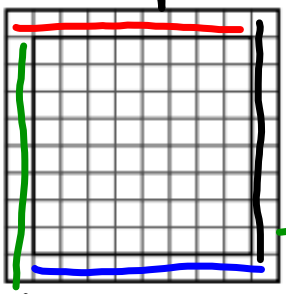
$10+8+8+10$



Stephen

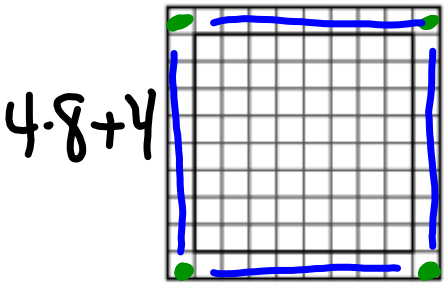


Teagan

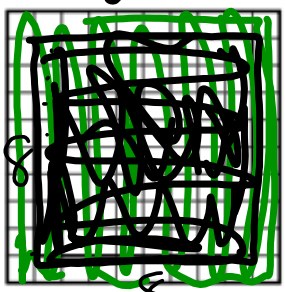


Kayden

$4 \cdot 10 - 4$



Erica 20



Mrs M.

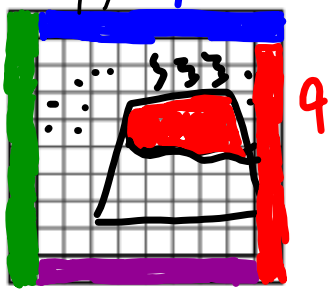
$100 - 64$

3

$10+9+9+8=36$

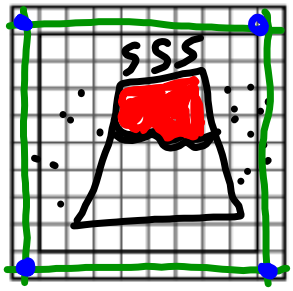
19 17

Period 3



Dylan

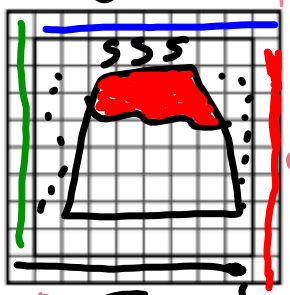
$4 \cdot 10 - 4$



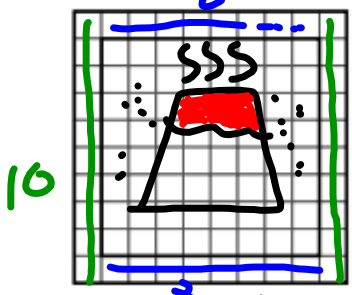
Junior

$4 \cdot 9$

9



Isabell

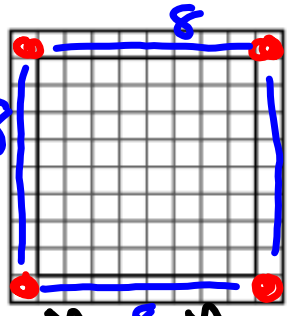


Angell

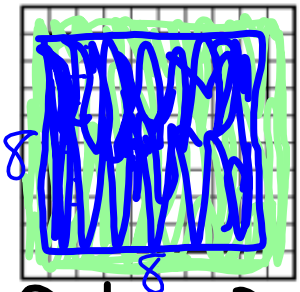
$1+10+10+3+3=36$

$4+4.8$

$32+4=36$



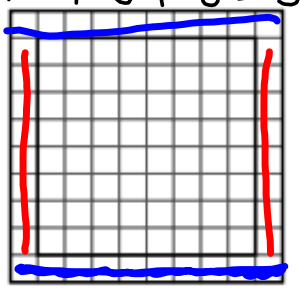
Mrs M.



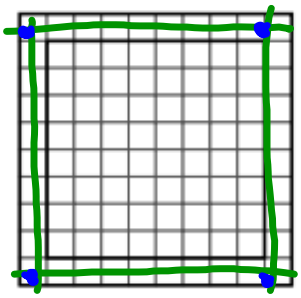
Dylan 2.0

$100-64=36$

10+10+8+8=36



Gideon



Kendyn

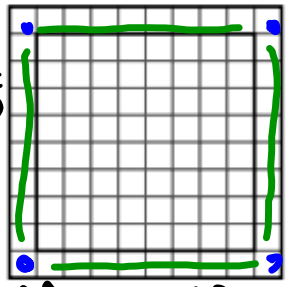
Period 5

4·10−4

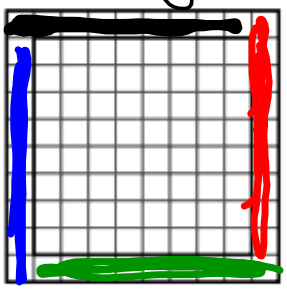
4+48

4+32

36



Mrs M.



Laurel

4·9

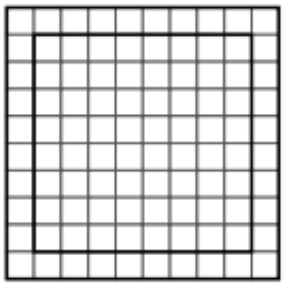
9

100

−64

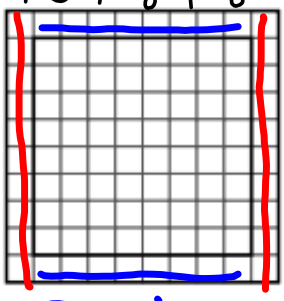
36

Rious

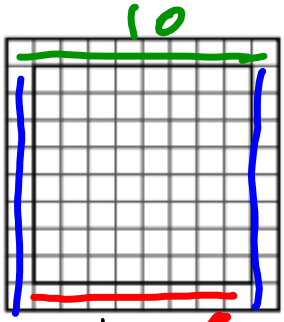


Period 6

10+10+8+8=36



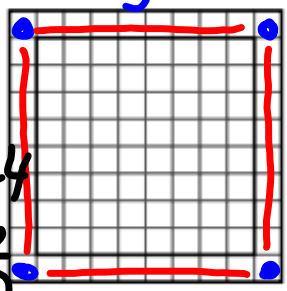
Raylee



4

Yahir

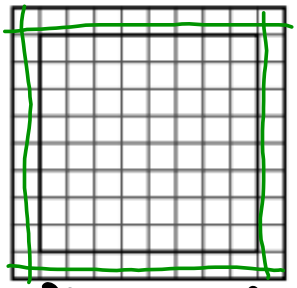
10+9+9+8



4+8+4+32

36

Mrs M.



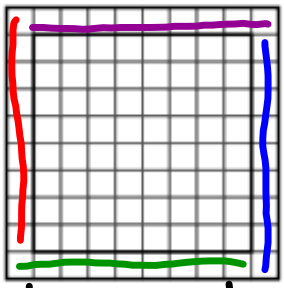
Mrs. M

4·10−4

40−4

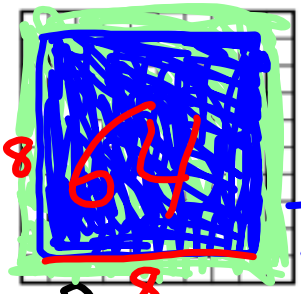
36

2.0



4·9

Laurel



Rious

100

−64

Jonas' Method: $4 \cdot 10 - 4$ $= 40 - 4 = 36$

Curran's Method: $10+9+9+8 = 36$

Tina's Method: $10+10+8+8 = 36$

$$\begin{array}{r} {}^{9} \\ \cancel{10},0 \\ -\ 64 \\ \hline 36 \end{array}$$

Ramond's Method: $10 \cdot 10 - 8 \cdot 8 = 100 - 64 = 36$

Alyssa's Method: $9 \cdot 4 = 36$

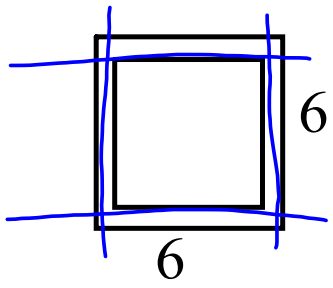
TJ's Method: $4 \cdot 8 + 4$

$32 + 4 = 36$

Now imagine that the frame from problem 4-12 has been shrunk so that it is 6 tiles by 6 tiles. With your team, consider the following questions *without drawing* the frame.

a. Choose one of the methods for counting the tiles and use it to find the number of tiles in that square's frame.

b. Choose another method and use it to find the number of tiles in the 6-by-6 frame. Did you get the same answer using both methods? Should you?

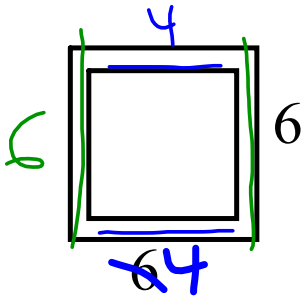


Jonas' Method

$4 \cdot 6 - 4$

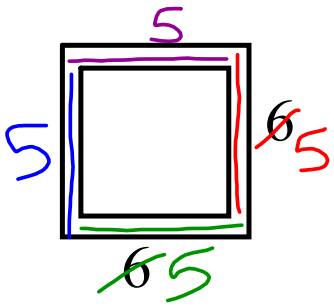
$24 - 4$

20 tiles



Tina's method

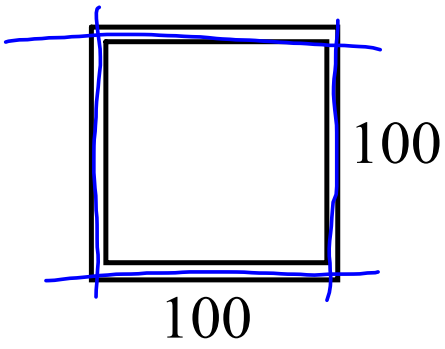
$6+6+4+4 =$ 20 tiles



Alyssa's Method

$5 \cdot 4 = 20$

Now imagine that the frame has been enlarged to be 100 tiles by 100 tiles. Choose two counting methods and use them both to find the number of tiles in the frame. Did you get the same answer using both methods? Should you?



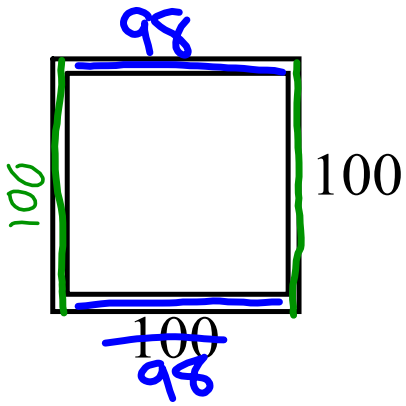
Jonas' Method

$4 \cdot 100 - 4$

$400 - 4$

396 tiles

$$\begin{array}{r} 3\,9 \\ 4\cancel{0}\,{}^{1}0 \\ -\quad 4 \\ \hline 396 \end{array}$$

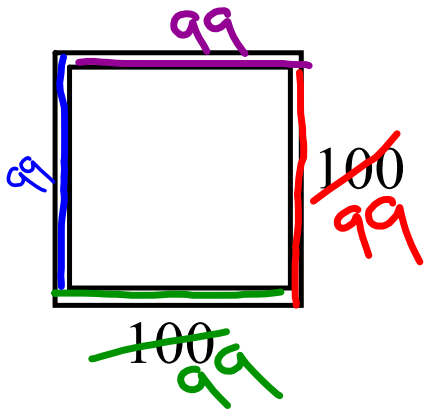


Tina's Method

$100 + 100 + 98 + 98$

(396 tiles)

$$\begin{array}{r} {}^{1}\,{}^{1} \\ 100 \\ 100 \\ 98 \\ +\ 98 \\ \hline 396 \end{array}$$



Alyssa's Method

$99 \cdot 4$

(396 tiles)

$$\begin{array}{r} 3\,99 \\ \times\ 4 \\ \hline 396 \end{array}$$