

Golden rectangles

- Use square grid paper.
- At each step we will calculate the ratio of length to width.
- Remember the Golden Ratio is approximately 1.161803

Step 1 : Start with a 1 x 1 square

length : width =



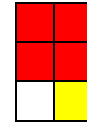
Step 2 : Add another 1 x 1 square

length : width =



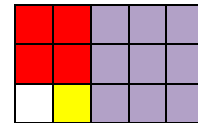
Step 3 : Add a 2 x 2 square

length : width =



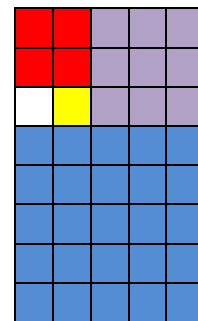
Step 4 : Add a 3 x 3 square

length : width ≈



Step 5 : Add a 5 x 5 square

length : width =



Step 6 : Add a square

length : width =

Step 7 : Add a square

length : width =

Step 8 : Add a square

length : width =

The quotient gets closer and closer to