

1 = $1/8$ because $1,1,4,7,8 = 1/2$ of the rectangle. Then we split half of the rectangle into fourths and then divided it by 2 because there are 2 halves.

2 = $1/16$ because $1/8$ multiplied by 2 is $1/16$. And we counted that 8 $1/16$'s fit into half of the rectangle and 8 multiplied by 2 is 16.

3 = $3/16$ because 3 of the 2's ($1/16$'s) can fit into the 3.

4 = $1/16$ because we split $1/2$ of the rectangle into $1/2$ which became a quarter. Then we split a quarter of the rectangle in half. We figured out that, that became $1/8$. Then we divided $1/8$ by four since there were 4 triangles in $1/8$. The answer was $1/32$. Then we did $1/32 + 1/32 = 1/16$.

5 = $1/8$ because it is half of one $1/16$. We found out that it is $1/8$ because we split the whole rectangle into fourths. And then one of the fourths into half.

6 = $1/16$ because it is half of 5 ($1/8$).

7 = $3/32$ because $1/16 + 1/32 = 3/32$. First we split the rectangle into quarters and then figured out that $1/16$ is $2/32$ and $2/32 + 1/32 = 3/32$.

8 = $1/32$ because it is a quarter of a quarter of the whole rectangle. And 8 fits in the whole rectangle 32 times.

9 = $1/32$ because it is a quarter of 5 ($1/8$) and half of 6 ($1/16$).

10 = $1/64$ because it is half of 9 ($1/32$) and two of $1/64$'s equal $1/32$.