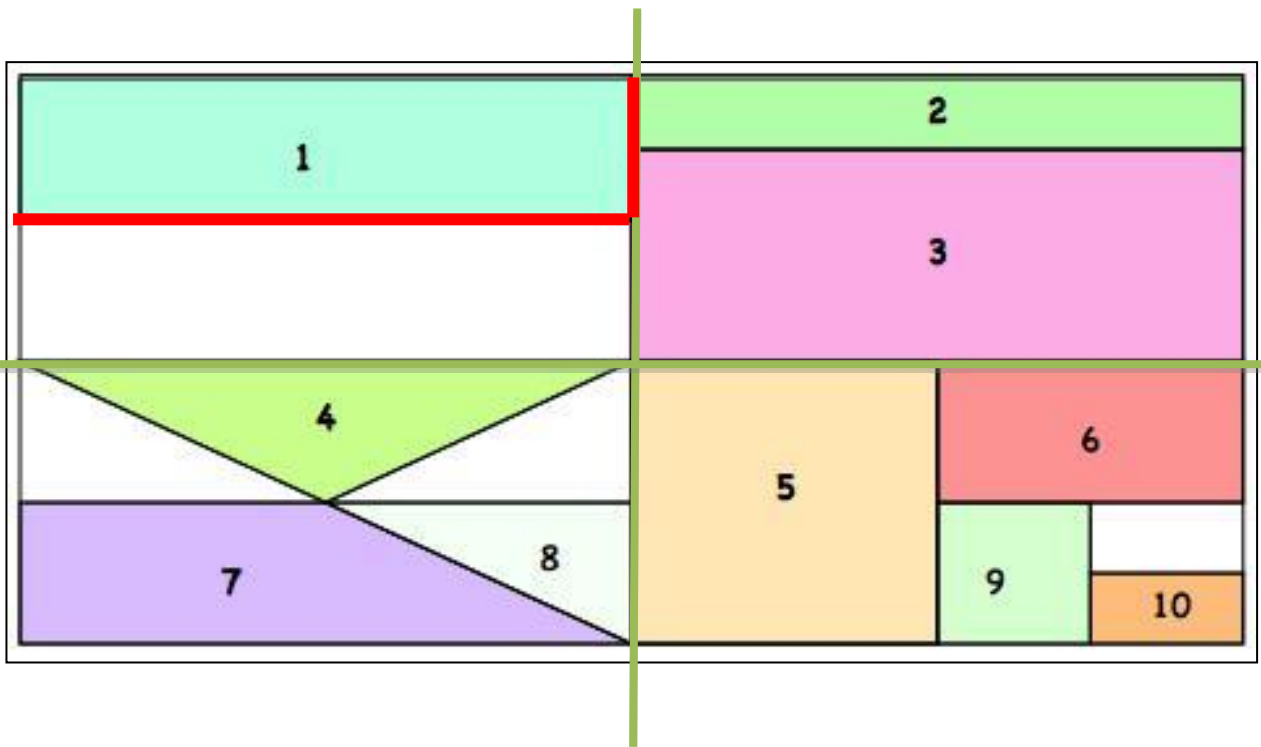


## Shape 1

Number 1 is  $\frac{1}{8}$  because you can split the picture into quarters so half of the space taken up is an eighth.

The answer is  $\frac{1}{8}$  because 8 times number 1 is the whole  $1 \times 8 = 1$  whole.

It's  $\frac{1}{8}$  because it's half of  $\frac{1}{4}$  and you can fit 8 of them into the whole shape.

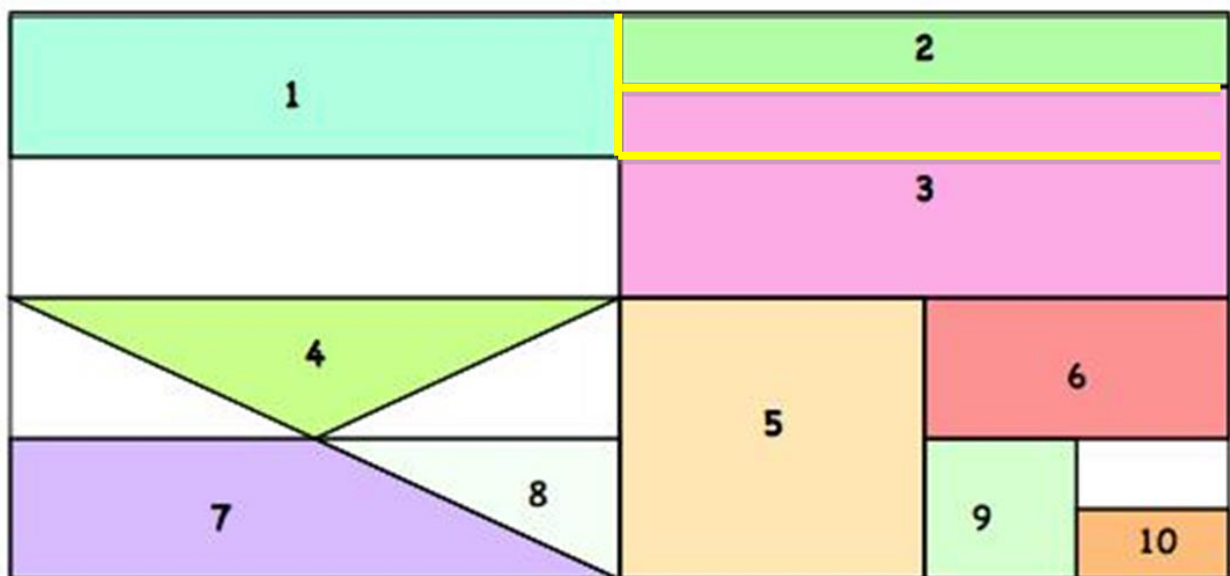


## Shape 2

Number 2 is a  $\frac{1}{16}$  because if number 1 is an eighth, then number 2 is half the size so it's a sixteenth.

The answer is  $\frac{1}{16}$  because number 2 is exactly half of number 1 so you have to double the denominator to equal the whole.

It's  $\frac{1}{16}$  because it is half of number 1 and you can fit 16 of them in altogether.



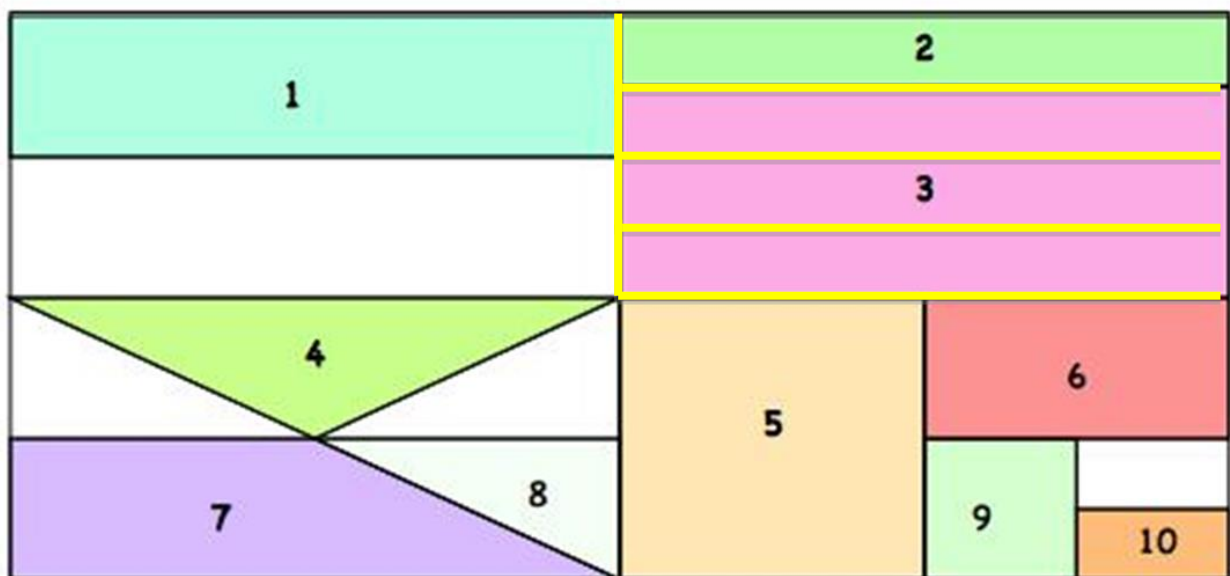
### Shape 3

Number 3 is  $\frac{3}{16}$  because when the shape is split into quarters, the shape takes up  $\frac{3}{4}$  of a quarter, so it's  $\frac{3}{16}$ .

The answer is  $\frac{3}{16}$  because we have worked out number 2 is  $\frac{1}{16}$  and number 3 is 3 times that so it's  $\frac{3}{16}$ .

Also  $\frac{1}{16}$  add  $\frac{3}{16}$  equals  $\frac{4}{16}$  so and number 2 and 3 equals  $\frac{4}{16}$  of the whole.

It's  $\frac{3}{16}$  because it is the same as 3 lots of the number 2.



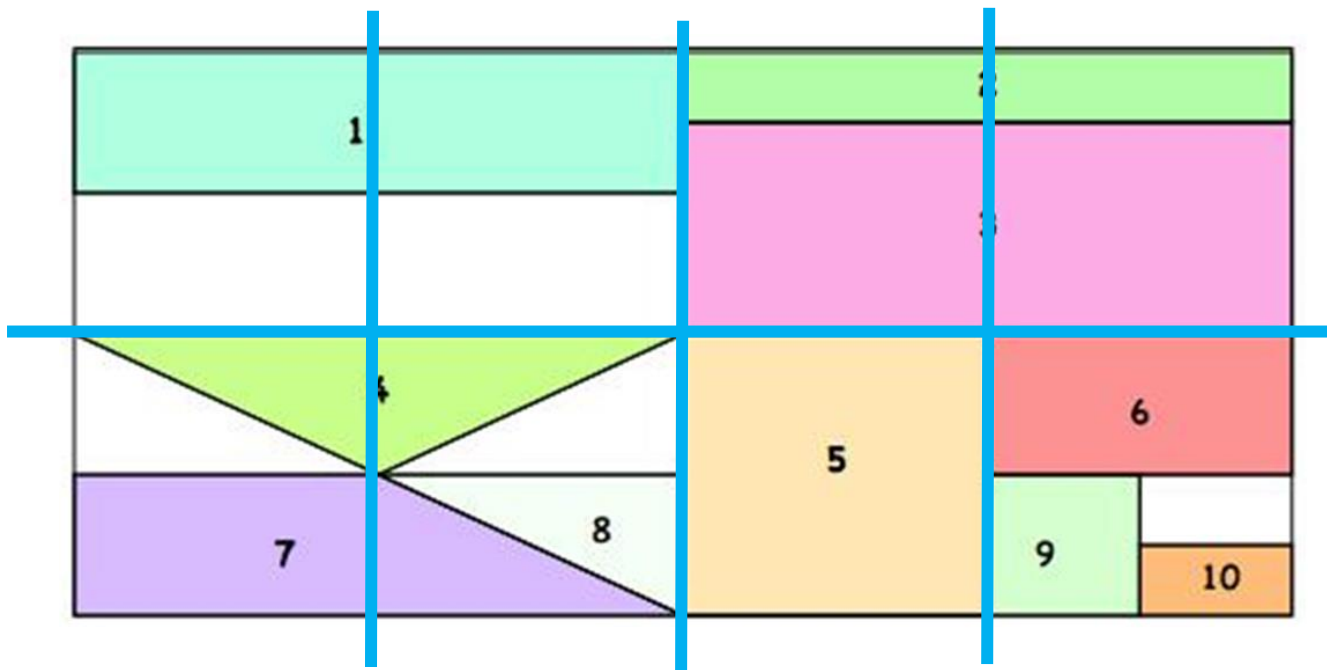
### Shape 4

The answer is  $\frac{1}{16}$  because the quarter where number 4 is in can fit number 4 in 4 times so  $4 \times 4 = 16$

### Shape 5

Number 5 is an  $\frac{1}{8}$  because if the whole shape is split into quarters, then half of a quarter is an eighth.

$\frac{1}{8}$  because 2 times that shape equals the quarter so 8 times the shape is the whole.



### **Shape 6**

1/16 because it is half of number 5 so you double the denominator.

### **Shapes 7 & 8**

Shape 8 is 1/32 because 32 lots of this shape equals the whole. Shapes 7 and 8 together is the same as shape 1, which is 1/8.

Shape 7 is  $\frac{3}{4}$  of the 1/8 and shape 8 is  $\frac{1}{4}$  of the 1/8. So shape 7 is 3/32 because it is three times number eight, which is 1/32.

### **Shapes 9 & 10**

9 is half of 6 so you double the denominator. It is 1/32 which is the same as shape 8.

10 is half of 9, so you double the denominator, making 1/64.