The Sum of two positive numbers is five times their difference. What is the ratio of the larger number to the Smaller number?

$$x_{1}y>0$$
. Whose $x>y$
 $x+y=5(x-y)$
 $\Rightarrow x+y=5x-5y$
 $\Rightarrow 0=4x-6y$
 $\Rightarrow 4x=6y$
 $\Rightarrow \frac{2}{5}=\frac{6}{4}=\frac{3}{2}$

A box contains a collection of rectangular and triangular tiles. There are 25 tiles in the box with 84 edger total. How many of each type of tile?

Let t be the number of triangular tiles and R be the number of rectangular tiles. Then

$$T+R=25-(5)$$

 $3T+4R=84-(2)$

We have

Sub into (2):

$$3(25-R)+4R=84$$

$$= 75 - 3R + 4R = 84$$

$$= 75 + R = 84$$

$$\Rightarrow$$
 T= 25-9= 16

So there are 16 triangular tiles 9 rectangular tiles