**The Law of Sines**

**The Law of Sines** (or **Sine Rule**) is very useful for solving triangles:



It works for any triangle:

|  |  |
| --- | --- |
| triangle | **a**, **b** and **c** are sides.  **A**, **B** and **C** are angles.  *(Side a faces angle A,  side b faces angle B and  side c faces angle C).* |

And it says that:

When we **divide side a by the sine of angle A**   
it is equal to **side b divided by the sine of angle B**,   
and also equal to **side c divided by the sine of angle C**

**Sure ... ?**

Well, let's do the calculations for a triangle I prepared earlier:

|  |  |
| --- | --- |
| 5,8,9 Triangle |  |

The answers are **almost the same!**   
*(They would be* ***exactly*** *the same if we used perfect accuracy).*

So now you can see that:

