**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:

