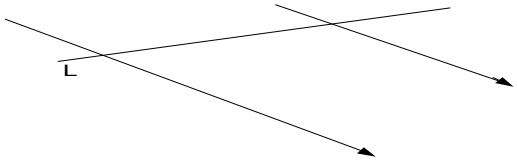
VII.Student's Handbook- Parallel Lines and the Transversal

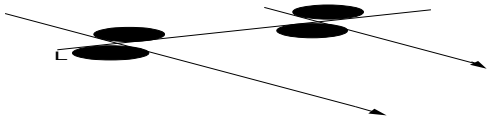
The following *name game* is perhaps the clearest example of what's really wrong with school-math.

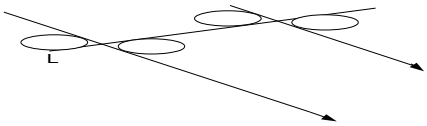
Students worldwide have to memorize these *5* illogical and confusing *names for angle pairs*.

the two lines with arrows are **parallel**

L is a third line called the **transversal**

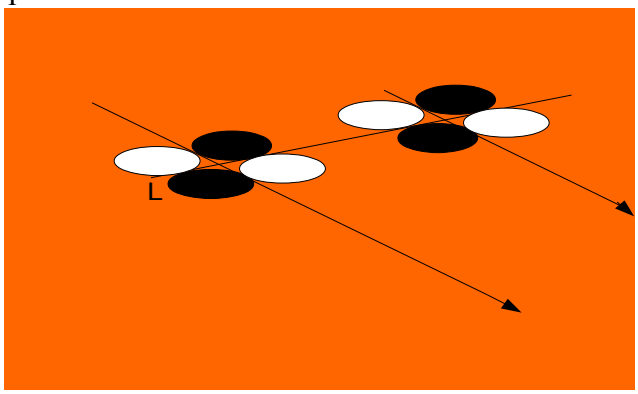






these four black angles are all **equal** and all the white angles are also **equal**

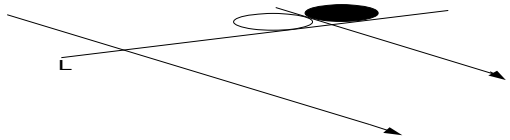
So, we get this very simple pattern:



All the black angles are **equal** to each other and all the white angles are **equal** to each other.

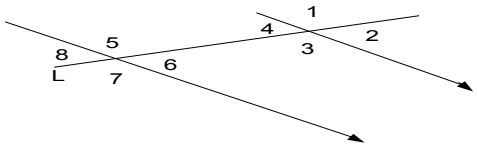
Also, any black and any white angle *together* form *180 degrees, p...*

because they form a **straight line**:



That's all there is to this topic!

But, here's what happens in school-math. *Memorize*!



angle pair *names*	**angle pair** *examples*	are they **equal**?
corresponding	*1* and *5* *4* and *8*	**equal**
corresponding exterior	*1* and *8* *2* and *7*	*not* **equal** even though they are called **corresponding**
corresponding interior	*4* and *5* *3* and *6*	*not* **equal** even though they are called **corresponding**
alternate exterior	*1* and *7* *2* and *8*	**equal** even though they are called **alternate**
alternate interior	*4* and *6* *3* and *5*	**equal** even though they are called **alternate**
same side angles:		
vertical should really be called **opposite angles**	*1* and *3* *2* and *4*	**equal**

There are *5 absurd names* of **angle pairs** in a picture with only *2 different angles* in it, in the first place.

There is nothing more to this topic, no further use for these names later on. These names *never* come up again, ever!

Here's a *trick* to memorize these 5 names and whether the two angles in each pair are equal or not:

corresponding angles are indeed **equal** as the name would seem to imply,

but...

All other **angle pair** with the word **corresponding** in it, the angles are *not* **equal**

(the opposite of what you would expect)

also...

All **angle pairs** with the word **alternate** in it *are* **equal**

(again the opposite of what you would expect)

So everything is almost upside-down-world, except for **corresponding angles**.

You "just" need to remember:

corresponding angles means the **angles** *are* **equal,**

in *every* other case **corresponding** means *not* **equal** and **alternate** means **equal**

Ta-Da

The most ridiculous part of this "topic":

Corresponding angles are **angle pairs** on the *same* side where one is **exterior** and one is **interior.**

What are **angle pairs** on *different* sides where one is **exterior** and one is **interior** called?

corresponding angles	**????**
corresponding exterior angles	**alternate exterior angles**
corresponding interior angles	**alternate interior angles**

That's right, there is *no* name for **angle pairs** (*5*, *2*) (*8*, *3*) (*7*, *4*) (*6*, *1*) !!