1. Sum of Angles in a Triangle

Follow the instructions on Page 532 (B21) & 533 (B22).

After step 4, calculate the total of the three angles.

Now highlight a point and drag it around the screen.

What happens to the three angles?

What happens to the total?

2. Supplementary Angles

Plot two points and join them with a line segment.

On the line plot a point. Plot another point not on the line. Join the two new points with a line segment.

Label the points and measure the two angles. Calculate the total of the two angles.

Now highlight the last point that you created and drag it around the screen.

What happens to the two angles?

What happens to the total?
3. Opposite Angles
Plot two line segments such that they will intersect.
Plot a point where the lines intersect.
Label the points and measure the four angles.
Calculate the total of the four angles.
Now highlight one of the points on the end of a line and drag it around the screen.
What happens to the four angles?
What happens to the total?

4. Complementary Angles
Draw a line segment.
Highlight the line and click on TRANSFORM | ROTATE (90° should be the default angle) | ENTER.
This will create a right angle. Now draw a line segment from the corner of the angle.
Label the points and measure the two angles. Calculate the total of the two angles.
Now highlight the point on the end of the last line that you created and drag it around the screen.
What happens to the two angles?
What happens to the total?

5. Parallel Lines
Draw a line segment.
Highlight the line and click on TRANSFORM | TRANSLATE (change the distance to 5.0cm) | ENTER.
This will create a parallel line. Now draw a line segment that crosses both of these lines. Plot points where this happens.
Label the points and measure the eight angles created by this Transversal.
Now highlight the point on the end of the transversal and drag it around the screen.
What happens to the angles?
Describe any similarities and differences.

Homework
None as such.
However, have a think about what you have discovered today and we will do some more work on this tomorrow.