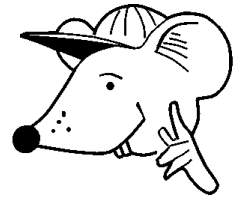


MATHEMATICS



N.S. Yr. 2 P.89

**Describe movement in a straight line and turning
and understand angle as a measure of turn.**

Equipment

Paper, pencil, ruler, geo-strip apparatus or similar, plastic shapes.

MathSphere

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Concepts

Children should understand and use in practical contexts the following vocabulary:

slide, roll, turn, whole turn, half turn, quarter turn, right angle, straight line.

Children should carry out much practical work on turning in P.E. and continue to study things that turn such as wheels and swings. Which turn continuously or for just one whole turn or for just a fraction of a turn? Which ones reverse direction (swing)?

They should be able to turn one whole turn, one half turn and one quarter turn.

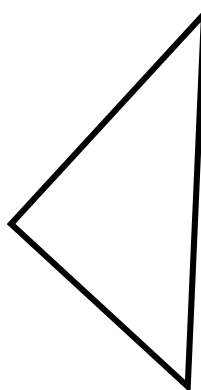
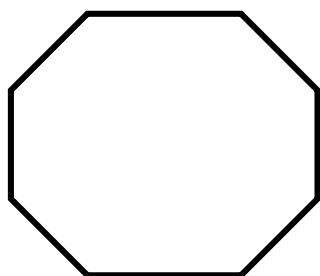
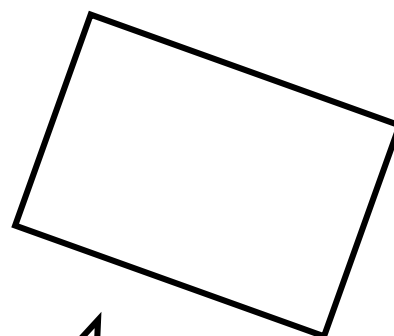
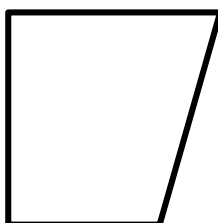
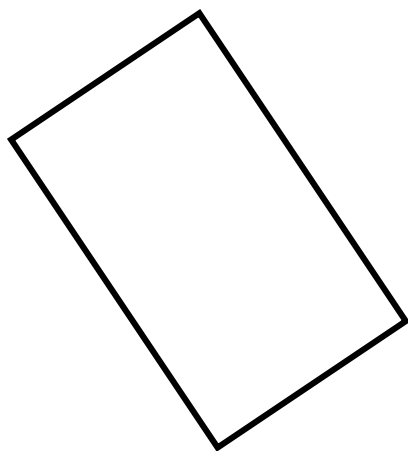
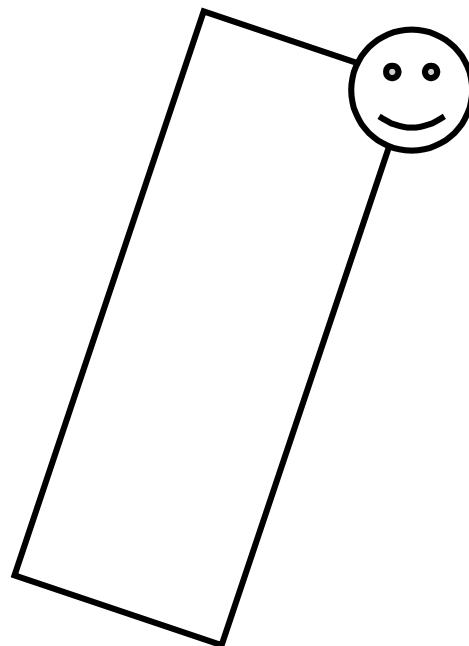
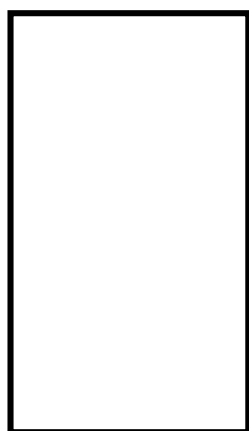
They should know that one quarter turn is a right angle and that right angles may be found in many places in everyday life (corners of tables, books, doors etc).

They should be able to identify right angles and make them using apparatus such as geo strips. If you do not have geo-strips, you can use straight pieces of wood or thick card joined together so that they can rotate relative to each other.

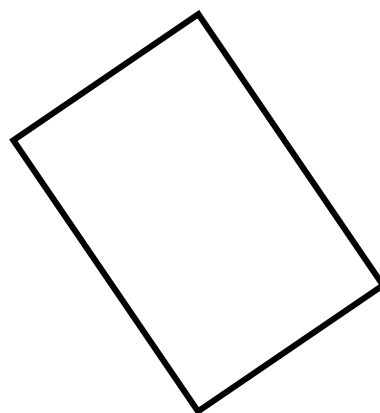
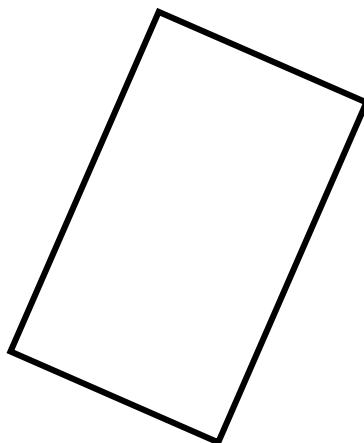
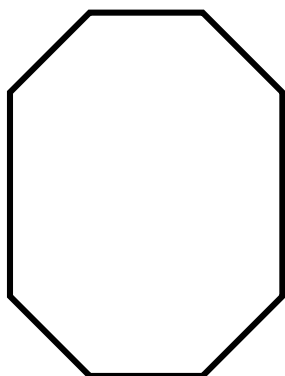
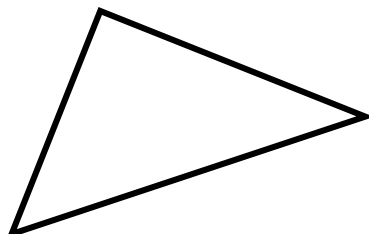
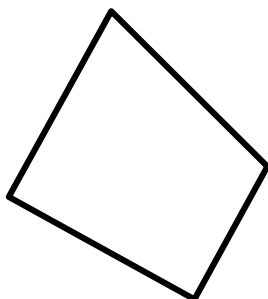
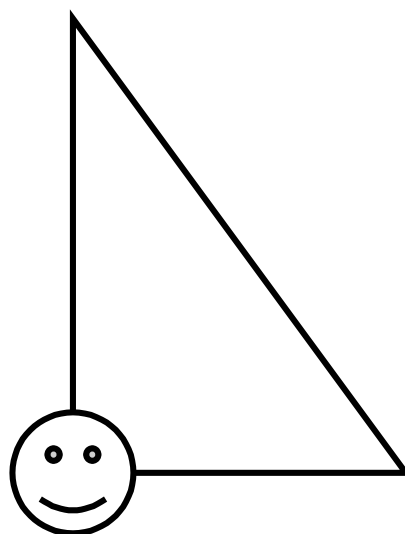
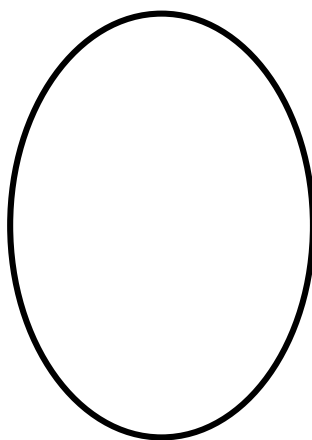
Children should also recognise that a right angle remains a right angle, even when it is turned as a whole. In other words, if we turn a book round on a table, the corners are still right angles.

Lastly, they should be able to continue patterns that involve simple rotations. The best way to do this is to use repeating plastic or card shapes.

Here are some shapes. Draw a smiley face over every right angle. One has been done for you.



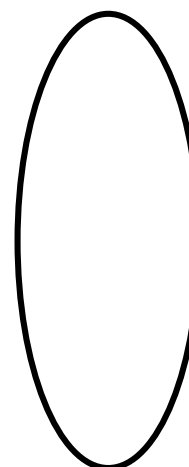
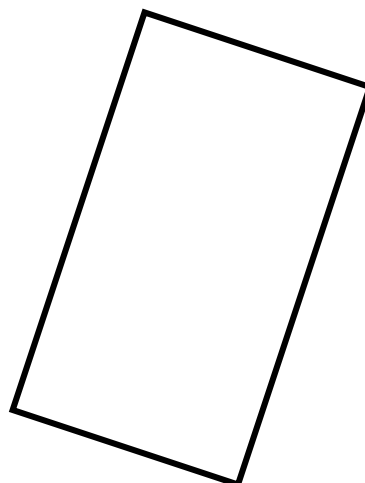
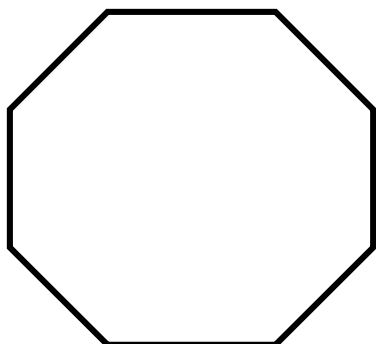
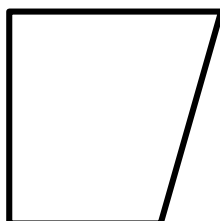
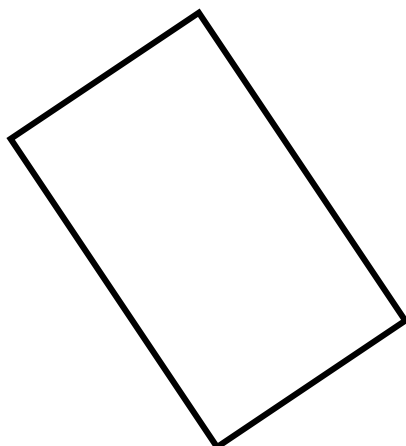
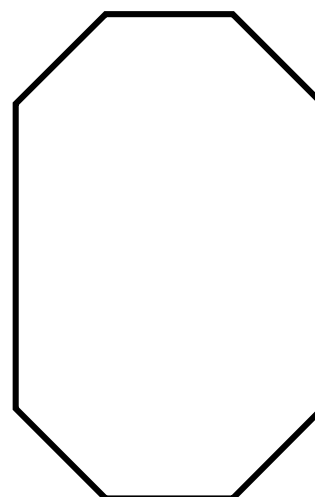
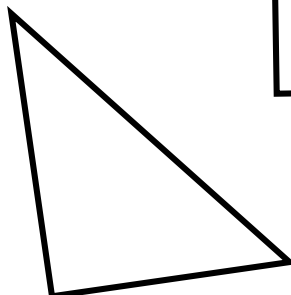
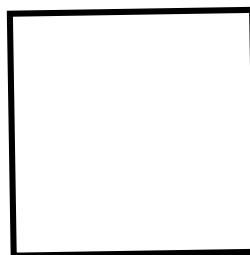
Here are some more shapes.
Draw a smiley face over every
right angle. One has been done
for you.

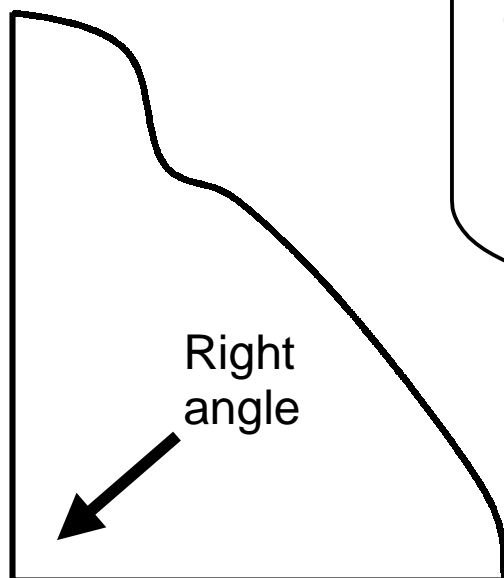


Here are some more shapes. Cut them out
and put them into groups.

One group has shapes with right angles.

One group has shapes with no right angles.



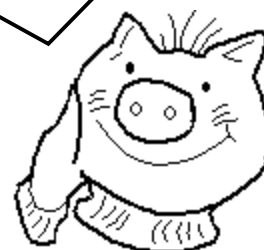


Cut out this right angle measurer.

Use it to find things in your classroom or home that have right angles.

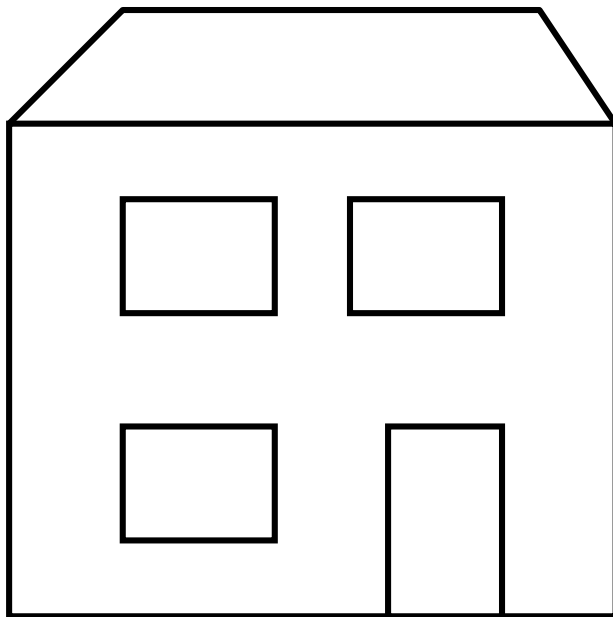
Make a list in this table.

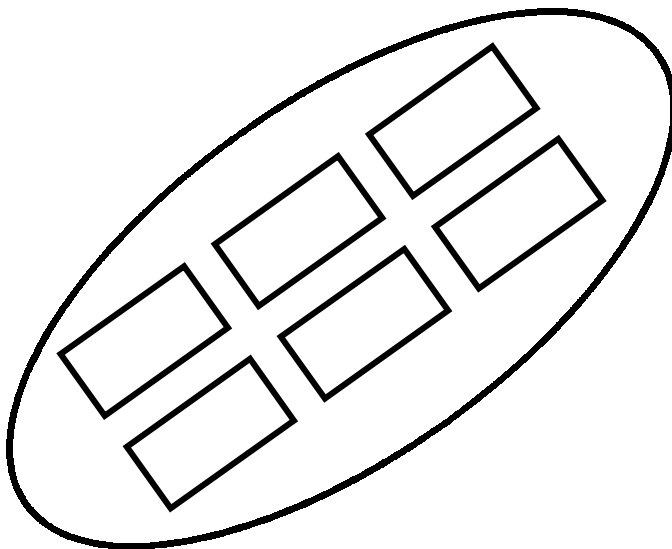
I have done one for you.

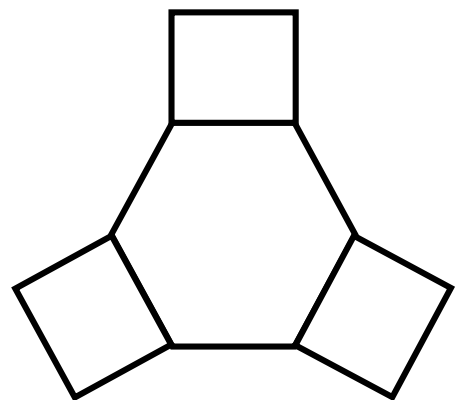


Name of the object	How many right angles does it have?
Piece of paper	4

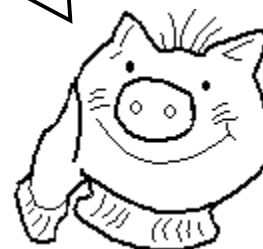
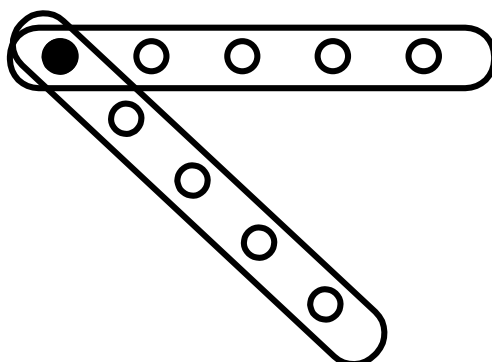
How many right angles can you see in these shapes?



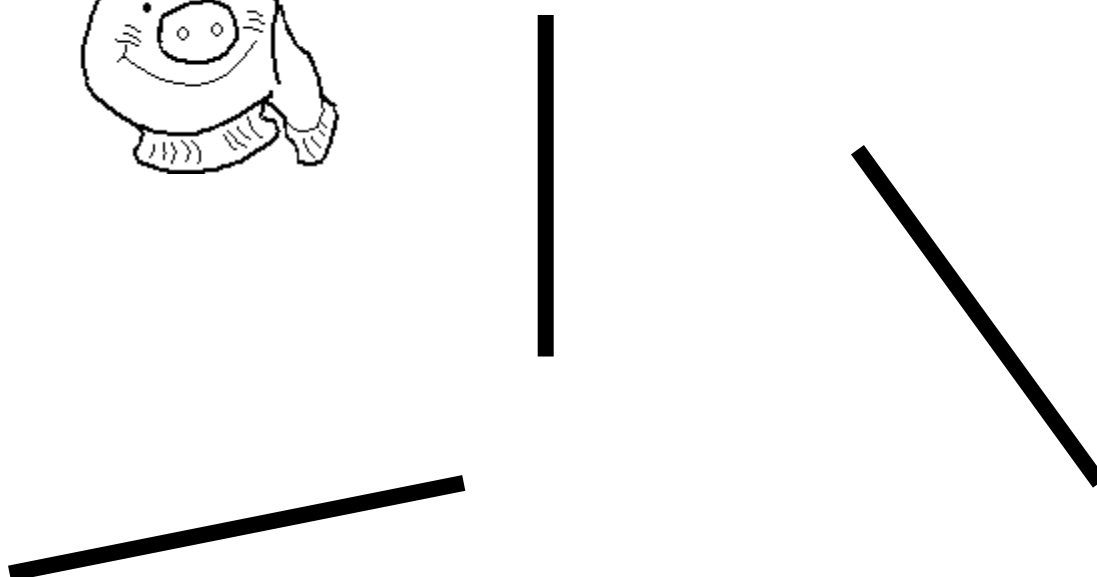




Join two pieces of geo-strip together like this:

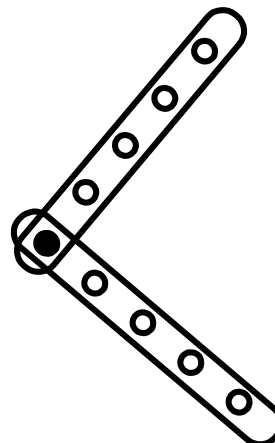
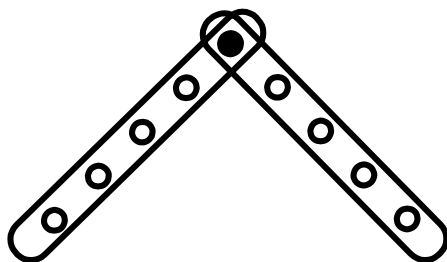
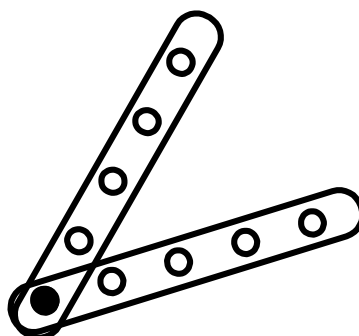
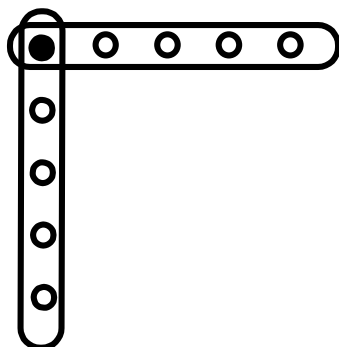
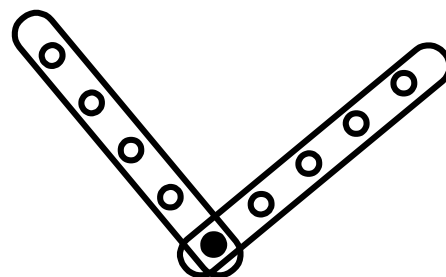
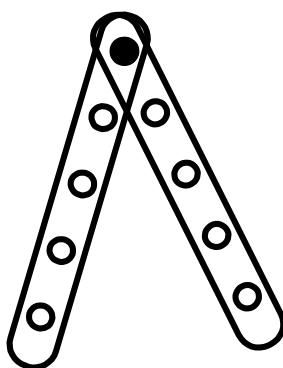
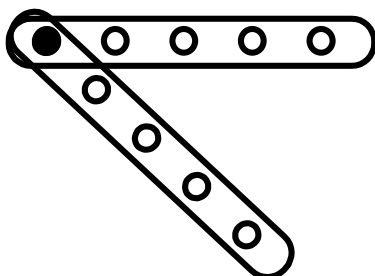
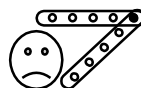
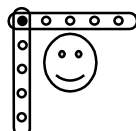


Put one piece on the thick lines below.
Turn the other piece to make a right angle and then a half turn.



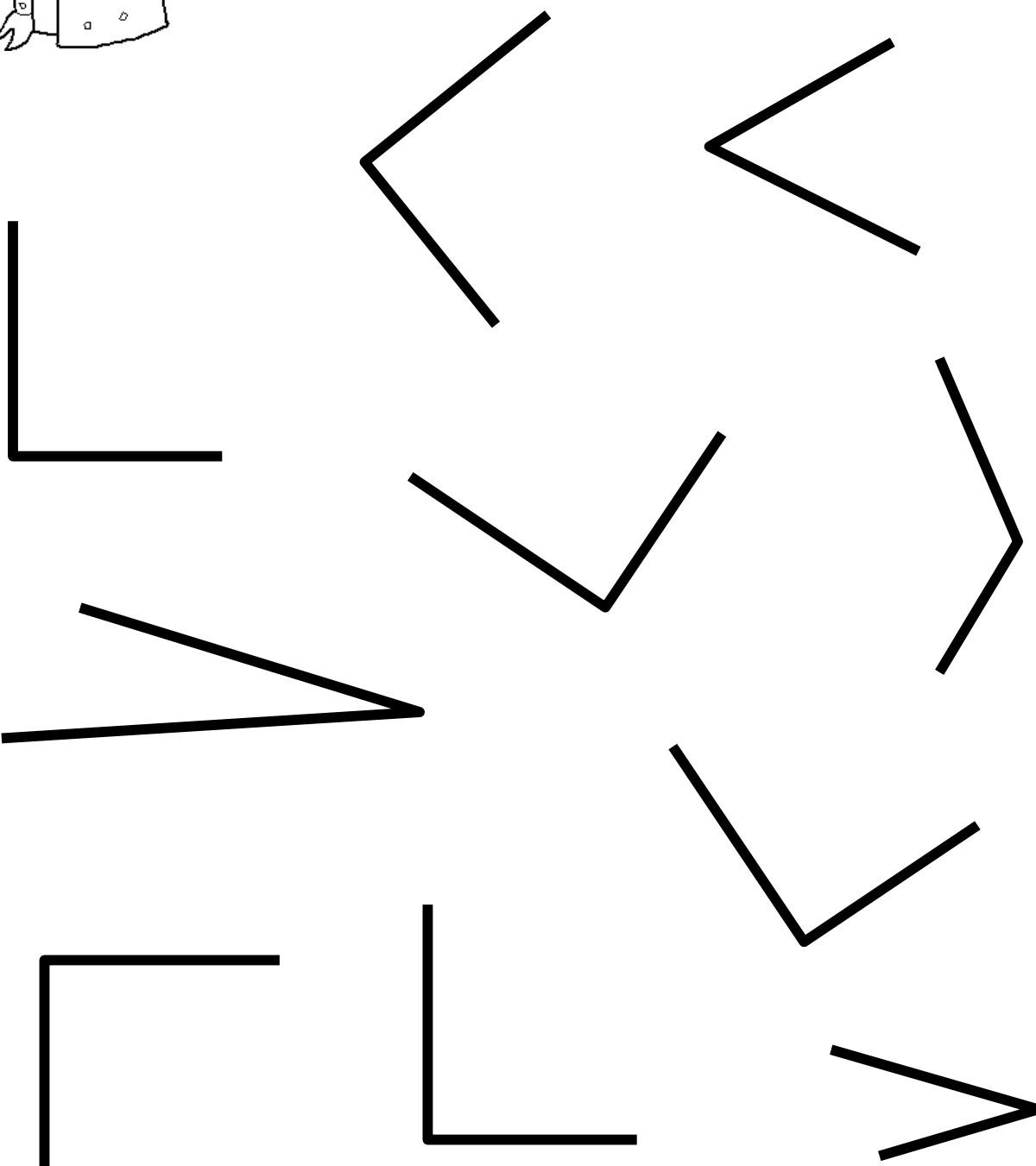


Draw a smiley face on the geo-strips that make right angles and a sad face on those that do not.

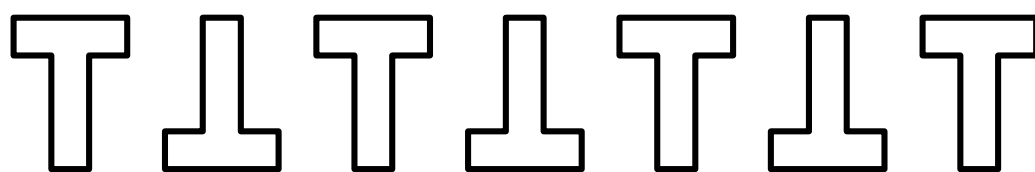




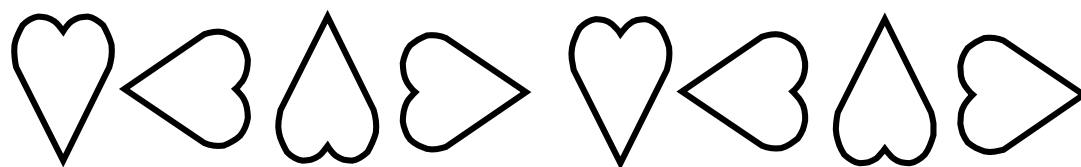
Draw a smiley face on the lines that make right angles and a sad face on those that do not.



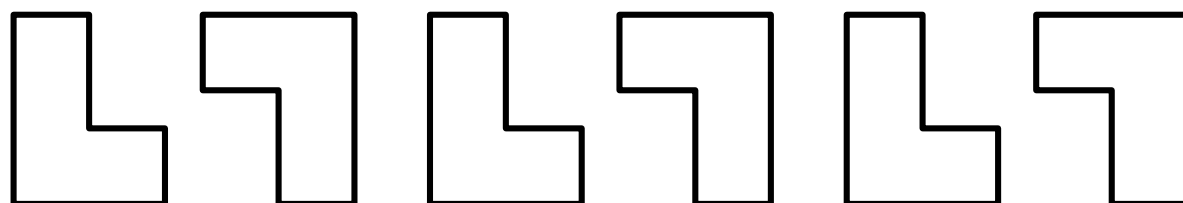
Make up patterns like these from plastic or cardboard shapes. Describe them to your teacher or parent. Can you colour them in a pattern?



The T shape slides along and turns through half a turn.



The heart shapes slides along and turns through a quarter of a turn.



The L shape