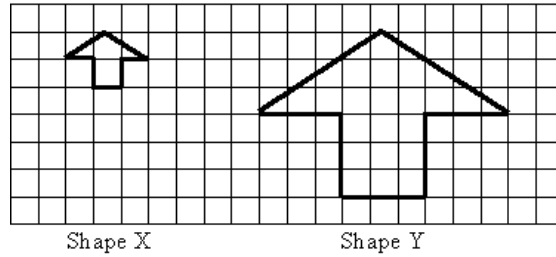


Lengths and angles

This task is about what happens to lengths and angles under enlargement.



In this diagram shape X has been enlarged by a scale factor of 3 to create shape Y. Use the diagram to answer the following questions.

a) The **lengths** of each side of shape Y are all ...

- smaller than the sides in shape X.
- the same as the sides in shape X.
- 3 times as long as the sides in shape X.
- 6 times as long as the sides in shape X.
- 9 times as long as the sides in shape X.

b) The **angles** in shape Y are ...

- all smaller than the angles in shape X.
- all the same as the angles in shape X.
- all bigger than the angles in shape X.
- sometimes smaller and sometimes the same as the angles in shape X.
- sometimes bigger and sometimes the same as the angles in shape X.