Lengths and angles

Shape X Shape Y

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 ...

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

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