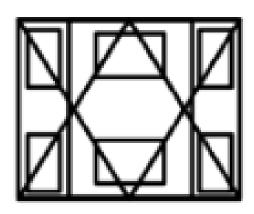
Always, sometimes or never true?

- A regular polygon has equal sides but not equal angles.
- A triangle is a regular polygon.
- A rhombus is a regular polygon.
- The number of angles is the same as the number of sides in any polygon.

How many regular and irregular polygons can you find in this picture?

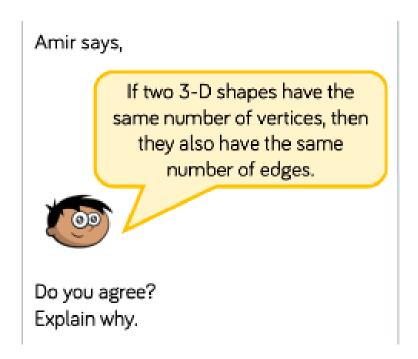


Regular and Irregular Polygons ANSWERS

Always, sometimes or never true?

- A regular polygon has equal sides but not equal angles.
- A triangle is a regular polygon.
- A rhombus is a regular polygon.
- The number of angles is the same as the number of sides in any polygon.
- Never true equal sides and equal angles.
- Sometimes true
 equilateral
 triangles are,
 scalene are not.
- Sometimes true
 if the rhombus
 has right angles
 and is a square.
- Always true.

Reasoning about 3D Shapes (Tuesday)



Using different 3-D solids, how can you represent them from different views?
Work out which representation goes with which solid.

For example,

Front view

Side view

Plan view

Reasoning about 3D Shapes ANSWERS

Amir says,

If two 3-D shapes have the same number of vertices, then they also have the same number of edges.



Do you agree? Explain why. No e.g. a squarebased pyramid and a triangular prism.

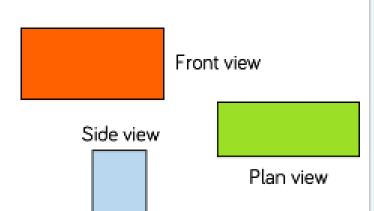
Children could investigate this and look for a pattern.

Using different 3-D solids, how can you represent them from different views?

Work out which representation goes with which solid.

For example,





Children may explore a certain view for a prism and discover that it could always look like a cuboid or cube due to the rectilinear faces.

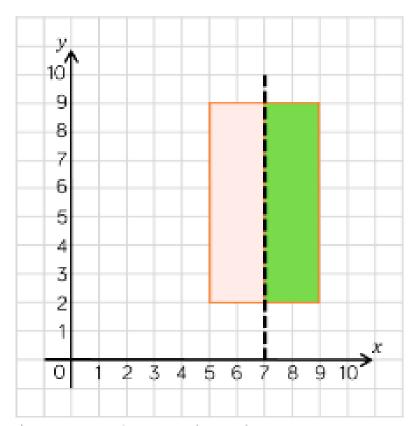
Reflection (Wednesday)



When you reflect a shape, its dimensions change.

Dora

Do you agree with Dora? Explain your thinking.



The rectangle is pink and green.

The rectangle is reflected in the mirror line.

What would its reflection look like?

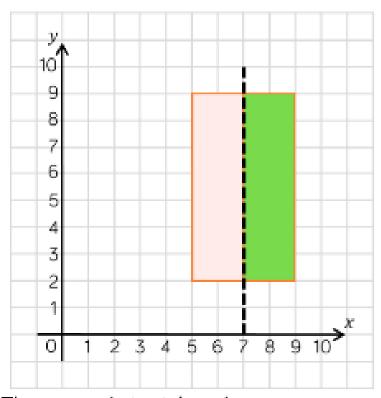
Reflection ANSWERS



When you reflect a shape, its dimensions change.

Dora

Do you agree with Dora? Explain your thinking. Dora is incorrect, the shape's dimensions do not change, only its position is changed.



The shape would remain in the same position, although the colours would be swapped – green on the left and pink on the right.

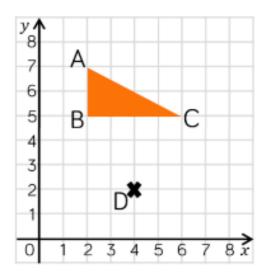
The rectangle is pink and green.

The rectangle is reflected in the mirror

line.

What would its reflection look like?

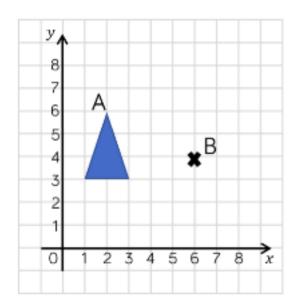
Translation (Friday)



Triangle ABC is translated so that point B translates to point D



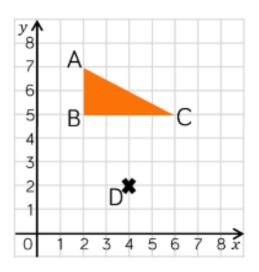
Do you agree with Amir? Explain your thinking.



A triangle is drawn on the grid. It is translated so that point A translates to point B.

What would be the coordinates of the other vertices of the translated triangle?

Translation ANSWERS



Amir is incorrect, the shape is translated two to the right and three down. It will fit on this grid.

Triangle ABC is translated so that point B translates to point D

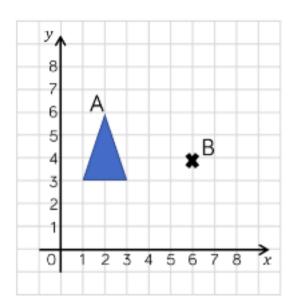




Do you agree with Amir? Explain your thinking.

(7, 1)

(5, 1)



A triangle is drawn on the grid. It is translated so that point A translates to point B.

What would be the coordinates of the other vertices of the translated triangle?