

Angles in Polygons Downloadable Resource – Generalising and comparing generalisations

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Try this

Using the diagrams, sort these statements into the Venn diagram:

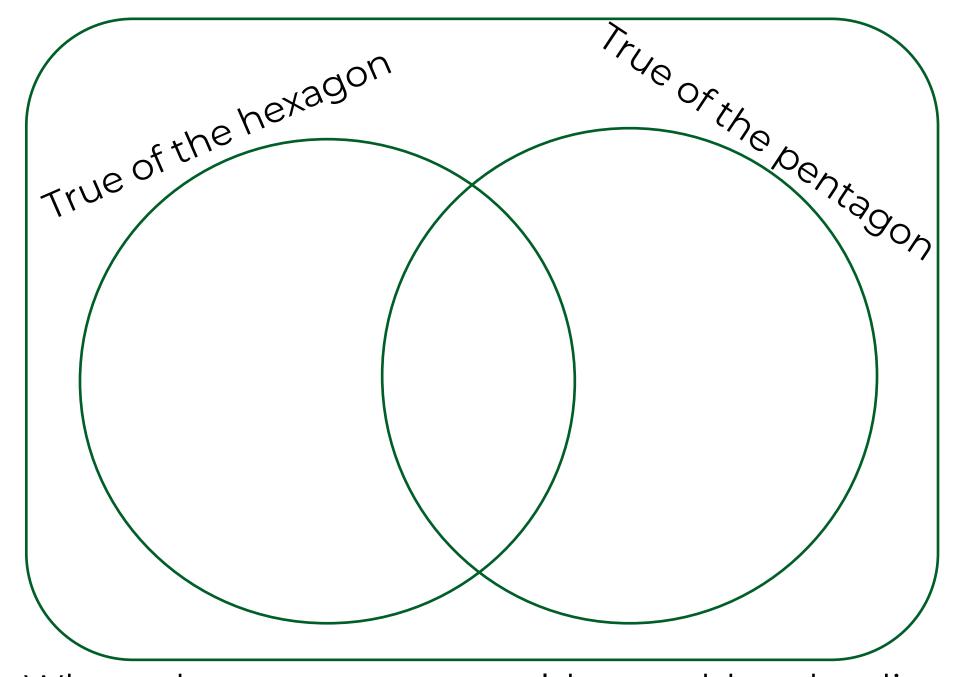
A: The sum of the purple angles is the same as the sum of the orange angles

B: The mean of the purple angles is 60°

C: All of the marked angles have different sizes

D: The sum of the purple angles is 540°

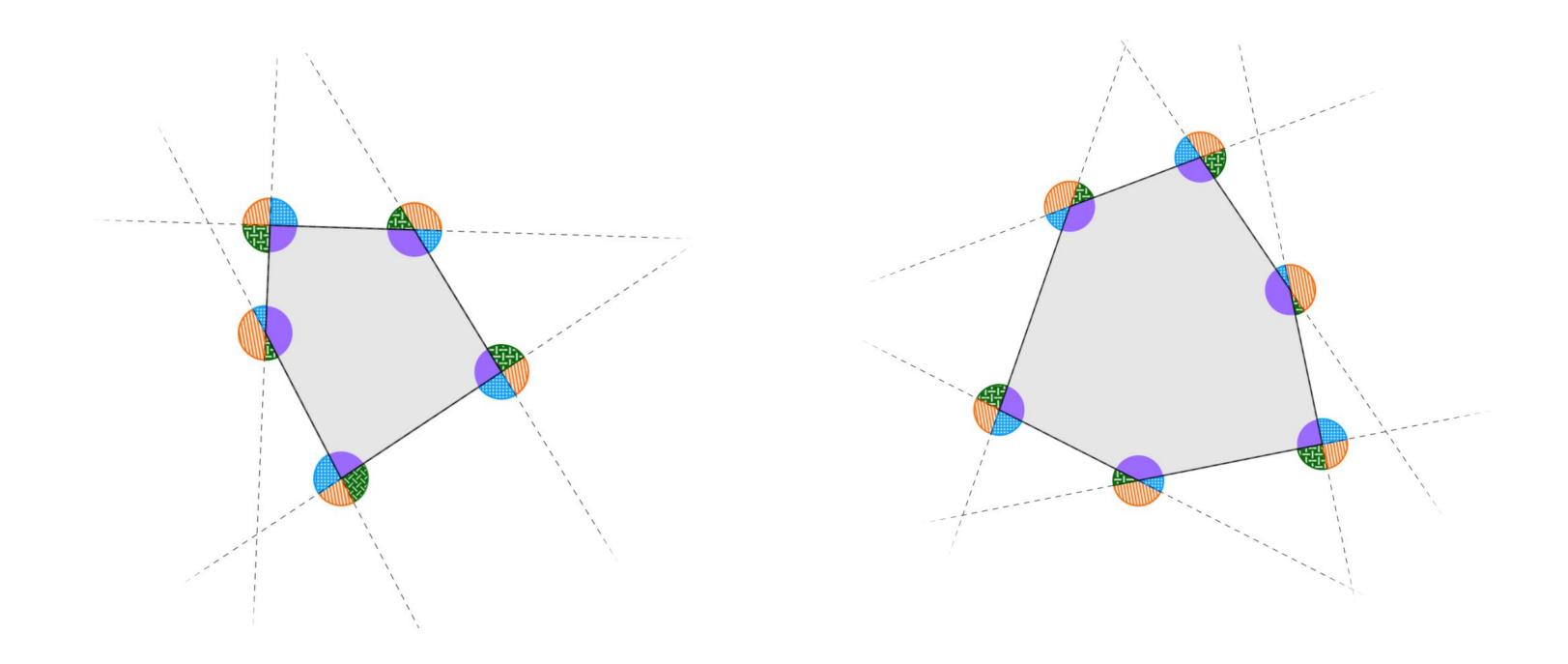
E: The sum of the blue angles is 360°



What other statements could you add to the diagram?



Try this





Connect

Let's compare some of the generalisations we've seen so far...



Independent Task

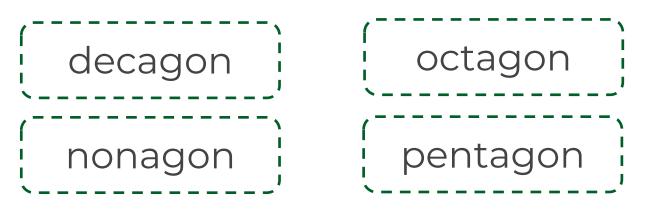
- The sum of the interior angles of a regular hexagon is ______ Each interior angle of a regular hexagon is ______ The sum of the exterior angles of a regular hexagon is ______ Each exterior angle of a regular hexagon is ______ The sum of the interior angles of an n-sided polygon is ______
- Each interior angle of an n-sided polygon is _____
- The sum of the exterior angles of an n-sided polygon is _____
- Each exterior angle of an n-sided polygon is _____

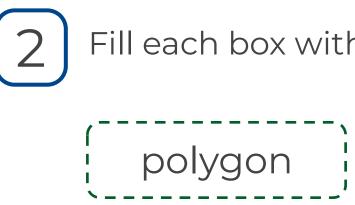




The sum of the interior angles of a Each interior angle of a regular İS The sum of the exterior angles of a is Each exterior angle of a regular IS

How many different answers can you find by filling the boxes with these words?







Fill each box with this word:

