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| **Investigating Triangles Inside Circles** |
| The first three diagrams show two joined isosceles triangles that fit together inside a semicircle. Calculate all marked angles and write down what you notice about the shaded angle. In the final diagram, choose your own angles and test your theory. |
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| **What did you notice?** |
| The next three diagrams show two joined isosceles triangles that fit together inside a full circle. Calculate all marked angles and write down what you notice about the shaded angles. In the final diagram, choose your own angles and test your theory. |
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| **What did you notice?** |