

Drawing Angles - Grade 9 Activities

1. The **Burj Al Arab hotel** is built on a sail-shaped structure. Draw two connected angles: one acute (40°) and one obtuse (140°), sharing the same vertex.
2. A **triangle in Islamic geometric art** has angles of 60° , 60° , and 60° . Draw this equilateral triangle and explain why all angles are the same.
3. A **desert tent in Liwa** is supported by two poles forming angles of 70° and 40° with the ground. Draw these two angles at the same point to represent the tents shape.
4. A **mosque arch** can be modelled as an isosceles triangle with angles 50° , 50° , and 80° . Draw and label this triangle.
5. At a **Dubai road junction**, one road makes a 90° turn, and another lane branches off at 45° . Draw these two angles from the same point.
6. A **triangular section of the UAE flag design** has angles of 30° , 60° , and 90° . Draw and label this triangle.
7. The **roof of a majlis (guest house)** is shaped like an isosceles triangle with angles 70° , 70° , and 40° . Draw this triangle.
8. A **kite at the Abu Dhabi Corniche** is modeled as a quadrilateral with one pair of opposite angles: 120° and 60° . Draw these two angles next to each other.
9. The wings of a **falcon** make an angle of 150° . If the bird's head adds another 30° angle downward, draw these two connected angles.
10. A **triangular tile design from Al Ain Palace** has angles of 45° , 45° , and 90° . Draw and label this right-angled triangle.