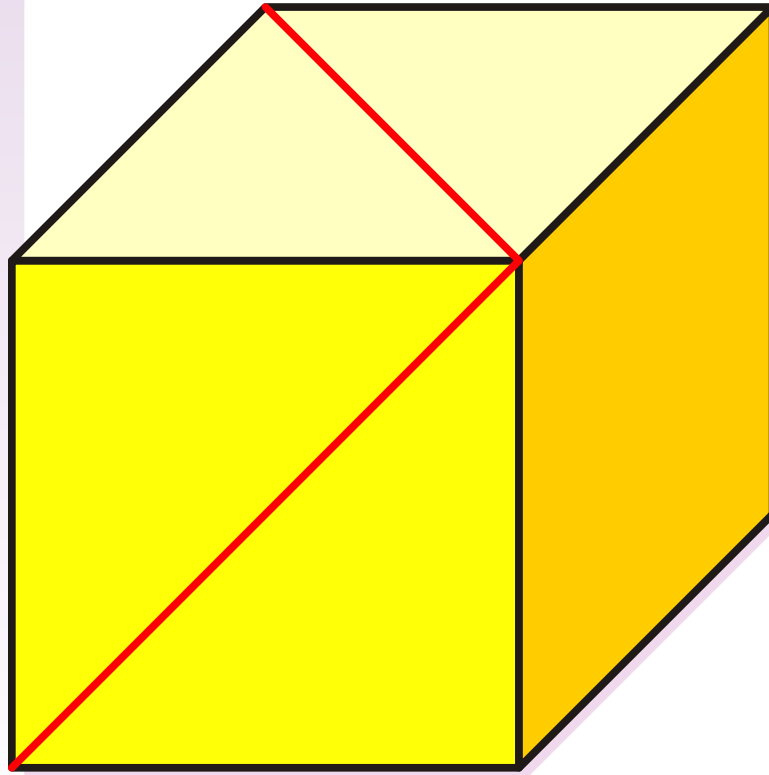


Treasure of Classic
and Modern Puzzles

Geometrical Puzzles



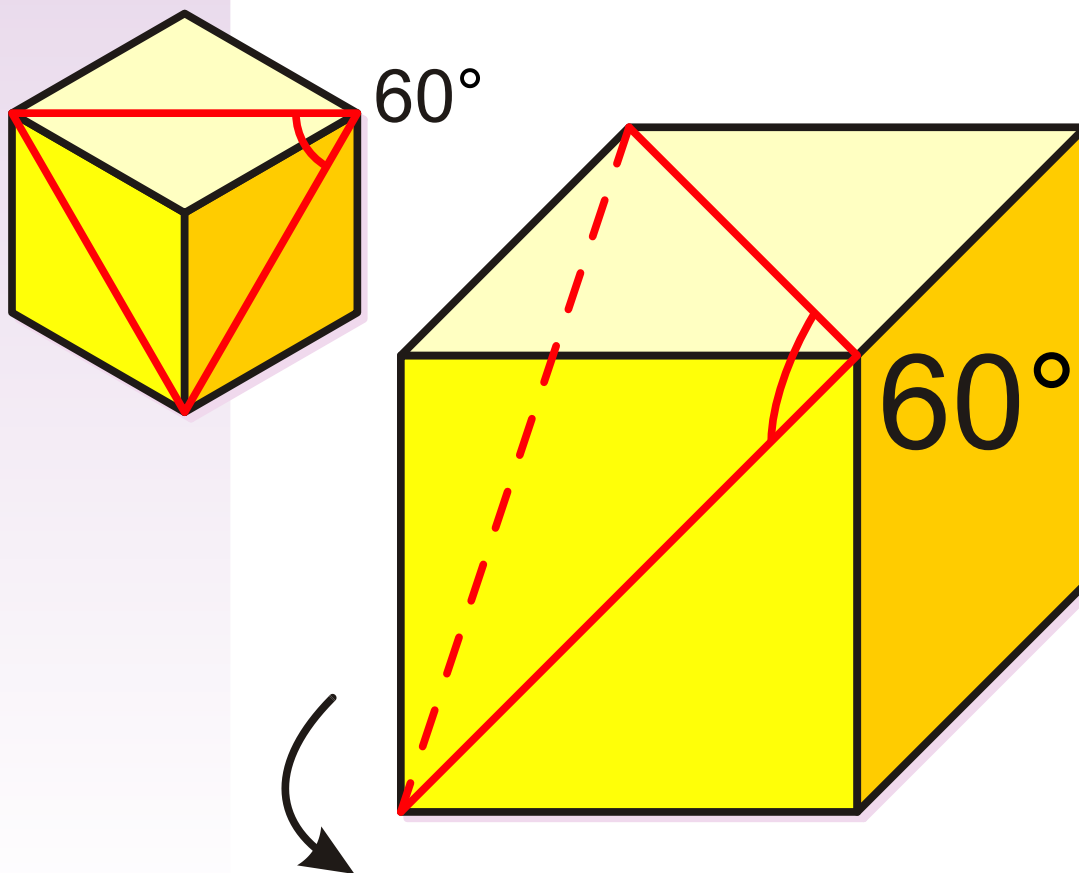
Cube Angle

after Martin Gardner

Can you say what angle is made by the two red lines drawn on the two sides of the cube as shown in the illustration?

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Cube Angle (solution)

The angle made by the two lines is 60 degrees. When we join the ends of the two lines with another line we get a triangle which has three its sides equal to the diagonal of the cube's side as shown in the illustration. Thus we get an equilateral triangle. As far as each angle in an equilateral triangle is equal to 60 degrees, it means the angle between the two lines is also 60 degrees.