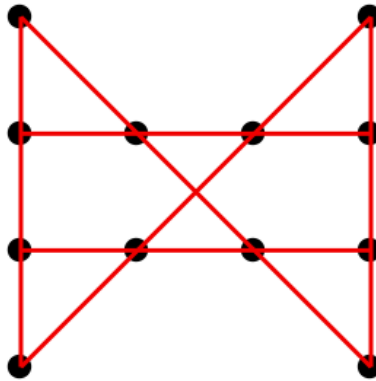


Puzzle of the Week

Lines – 5

Here is an example of 12 dots with 6 straight line segments so that each line segment goes through exactly 4 dots.

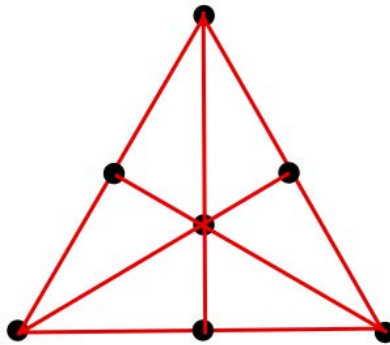


THE CHALLENGE: Design an arrangement of 7 dots with 6 straight line segments so that each line segment goes through exactly 3 dots.

Puzzle of the Week

Lines – 5 – Notes

THE CHALLENGE: The answer involves putting a point inside a triangle. Once you think of this, it is tempting to create an equilateral triangle and have the three internal lines meet as in this diagram.



However, lest you think the equilateral triangle is important, there is no need for that much care. Take any triangle, put two internal lines across from the corners, and then create the last line to go through the remaining corner and the intersection point inside the triangle.

