

Hong Kong Mathematics Olympiad 2014/15

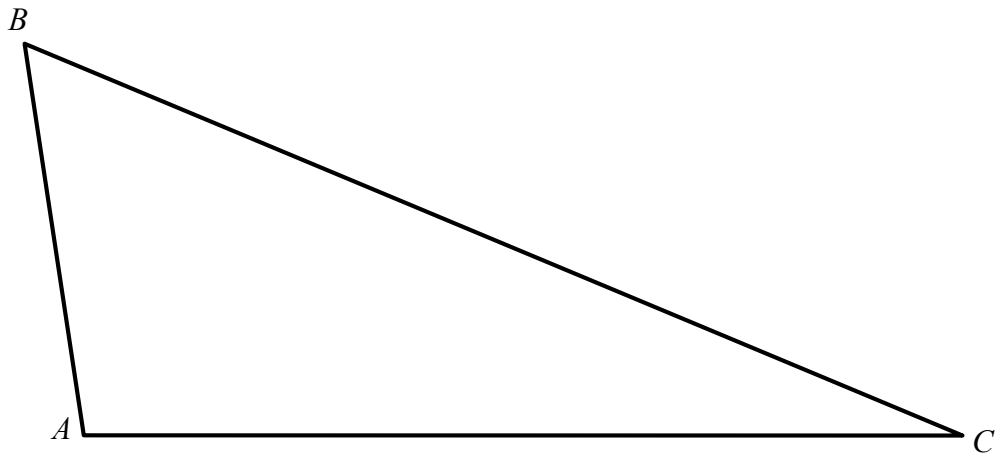
Heat Event (Geometric Construction)

香港數學競賽 2014/15

初賽（幾何作圖）

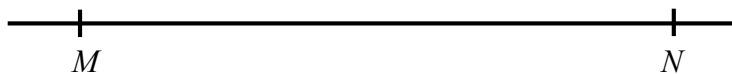
1. Construct an isosceles triangle which has the same base and height to the following triangle.

構作一個與下列三角形的底和高相等的等腰三角形。



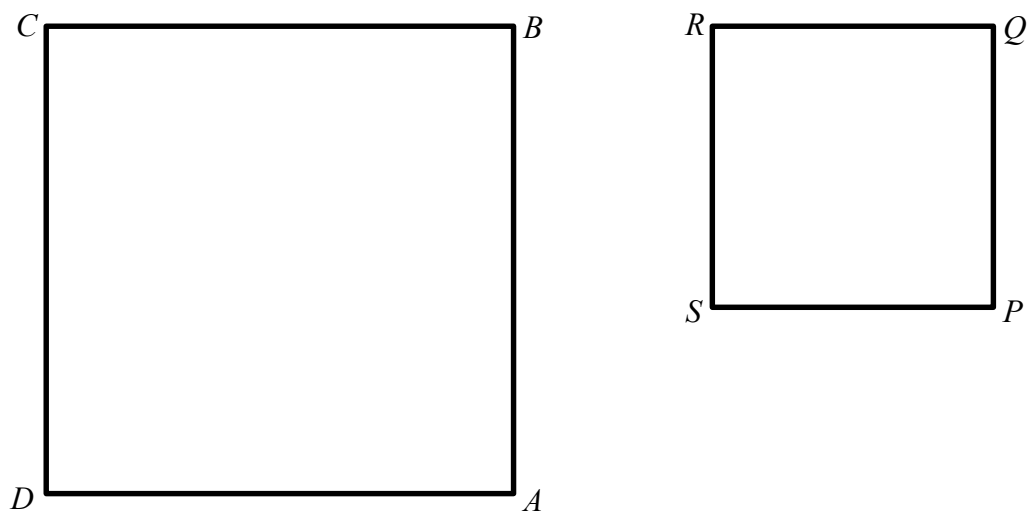
2. Given the following line segment MN represent a unit length, construct a line segment of length $\sqrt{\frac{1}{5}}$.

下圖所示為一個單位長度的線段 MN ，試構作一條長度為 $\sqrt{\frac{1}{5}}$ 的線段。



3. Construct a square whose area is equal to the difference between the areas of the following two squares $ABCD$ and $PQRS$.

構作一個面積相等於下列兩個正方形 $ABCD$ 及 $PQRS$ 面積之差的正方形。



END

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