MATHEMATICS WORKSHEET NO. 4
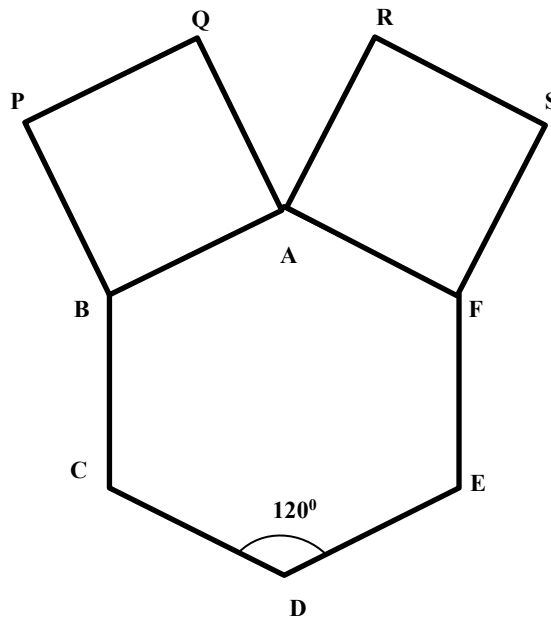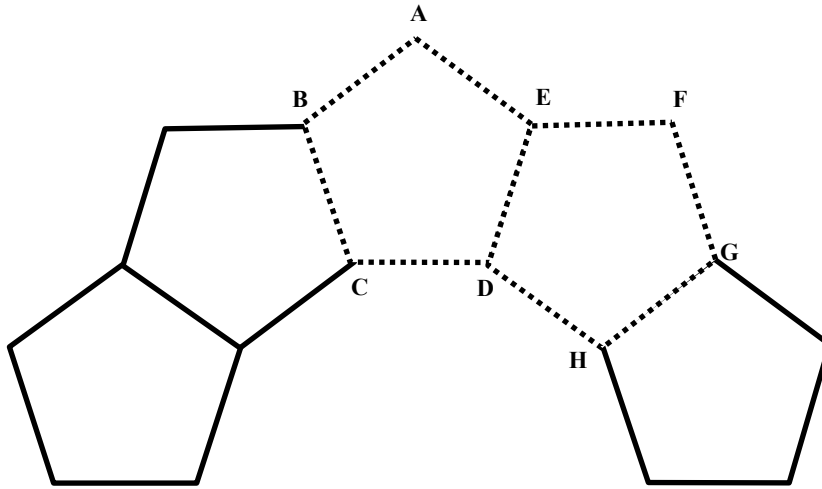
Class: 8___ Name: _____ Date: _____

Topic: Symmetry- Tessellation

A-   Identify the unit figure of a tessellation (*the unit figure should be a polygon or a combination of 2 different polygons*).

B-   Calculate the unknown angles in the given tessellation formed with the combination of same or different polygons. (*Not more than two different polygons*)

1-   a)   Show that the interior angle of a regular hexagon is 120^0.

 b)   In the diagram, ABCDEF is a regular hexagon. ABPQ and FARS are two squares.

   i)   Calculate:

    a)   Reflex < PBC

    b)   Obtuse < PAS

    c)   Acute < RBA.

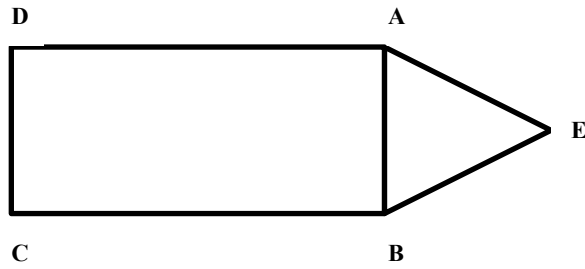   ii)   What is the special name given to triangle AQR?

2-   a)   The unit figure of the following tessellation is _____.

   b)   Show that the interior angle of a pentagon is 72^0.

   c)   In the diagram, ABCDE, and DEFGH are regular pentagons.
         Calculate the following angles:
         i)   Obtuse < AEF
         ii)   Reflex < CDH
         iii)   Acute   < ECD

3-   b)   The following shape is made up of a rectangle ABCD and an equilateral triangle ABE.

Calculate the following angles:
i)   Acute < BAE
ii)   Obtuse < DAE
iii)   Reflex < CDA