TB(1A) Ch. 7 Symmetry and Transformation

Conventional Questions

1.   **[11-12 Standardized Test 2 Q1]**
   By taking *O* as the centre of rotation, complete **Figure 1** which has 2-fold rotational symmetry.
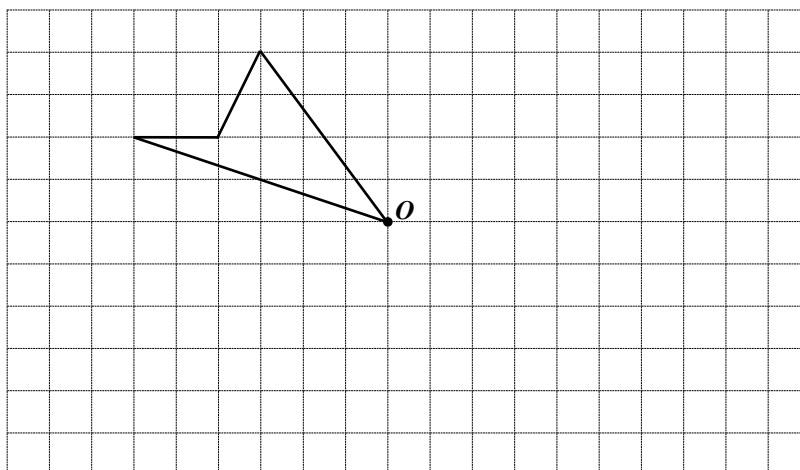
(2 marks)

Figure 1

2.   **[11-12 Final Exam Q5]**

   In **Figure 1**, shade the least number of squares to construct a figure with 4-fold rotational symmetry with "×" as the centre of the rotation.   **(2 marks)**
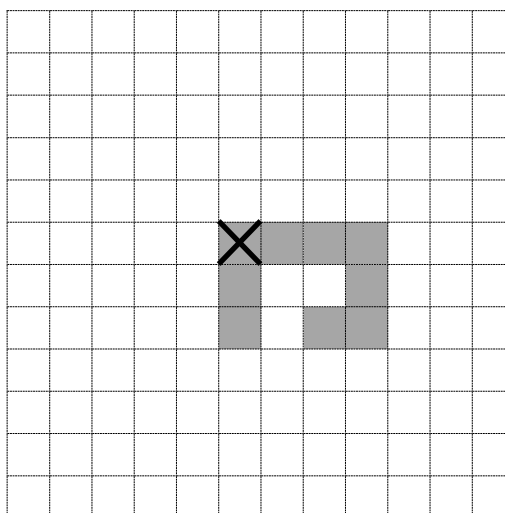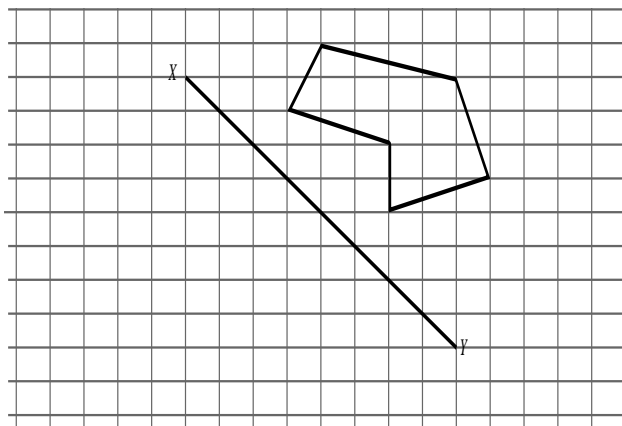

Figure 1

3. **[12-13 Standardized Test 2 Q1]**

Draw the image of the hexagon if it is reflected about *XY*.   **(2 marks)**

4. **[12-13 Final Exam Q4]**
   (a) **Figure 1a** shows ᐃ*ABC* and line *L*.
      (i) Classify the type of ᐃ*ABC* according to its sides.   **(1 mark)**

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      (ii) Reflect ᐃ*ABC* along *L* and then translate it 3 units to the right. Draw the image *A'B'C'* in **Figure 1a**.

      (1 mark)
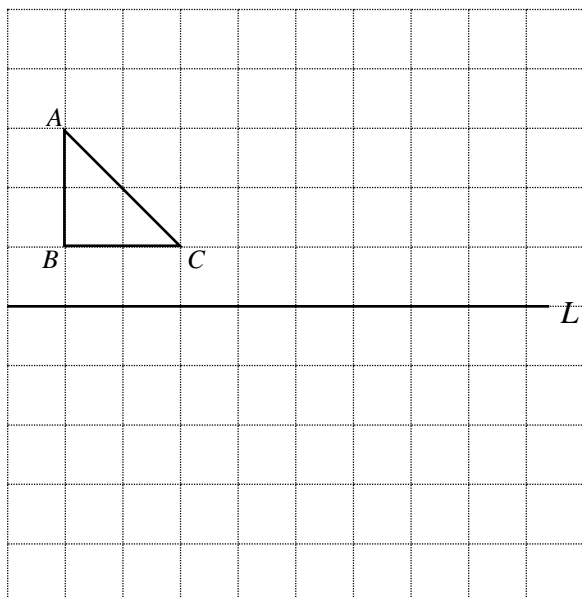   **(b)** In **Figure 1b**, draw the image when the shape *X* is enlarged by a scale factor of 1.5.
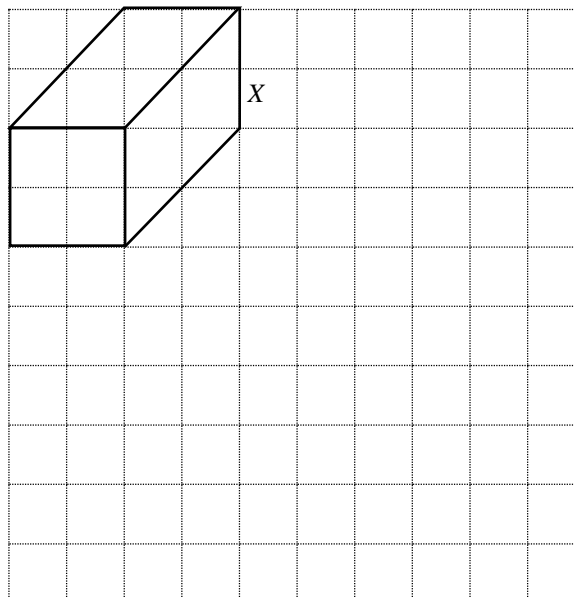
      (1 mark)

Figure 1a

Figure 1b

5. **[13-14 Standardized Test 2 Q3]**

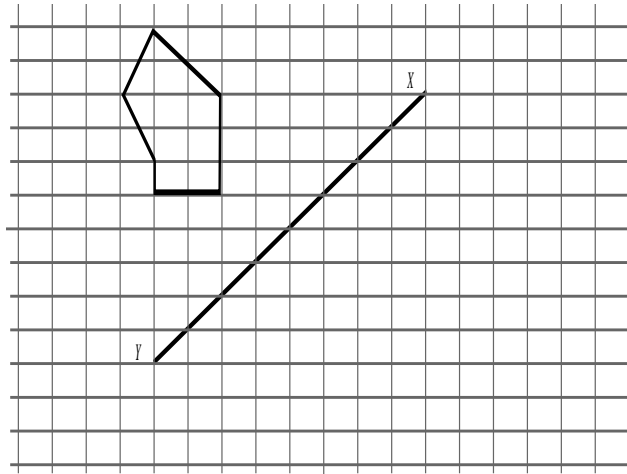   In **Figure 2**, draw the image obtained if the hexagon is reflected along *XY*.   **(2 marks)**

Figure 2

6. **[13-14 Final Exam Q1]**

   In **Figure 1**, shade the least number of squares to construct a figure of 2-fold rotational symmetry with "×" as the centre of the rotation.   **(2 marks)**
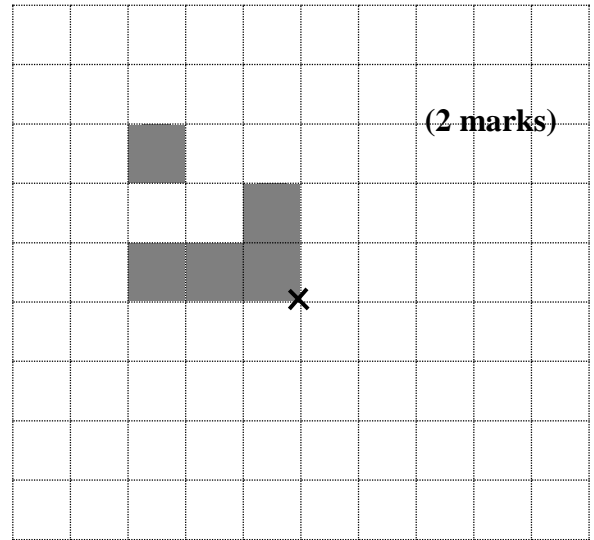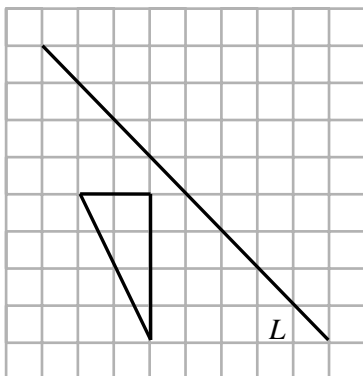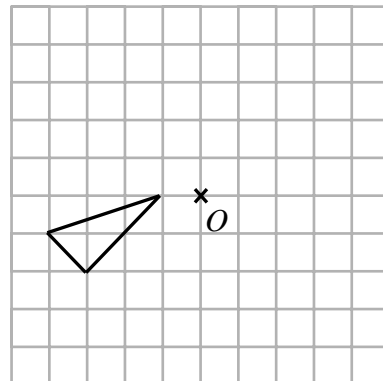
Figure 1

7. **[14-15 Standardized Test Q2]**

   (a) Draw then image of the triangle after it is reflected about the line *L*.   **(1 mark)**

   (b) Draw then image of the triangle after it is rotated anti-clockwise about *O* through $270°$.   **(1 mark)**

~ End ~