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| **SUBJECT: MATHEMATICS GRADE 8** |  |
| **PROJECT** | |

**INSTRUCTIONS TO LEARNERS:**

1. Work in pairs.
2. Make neat drawings.

**AIM**: This project is designed to assess your knowledge on transformation geometry (Enlargement and reduction).

**MATERIALS:**

* Set of mathematical instructions
* Ruler (30cm)
* Pen and pencil
* Provided A4 plain paper

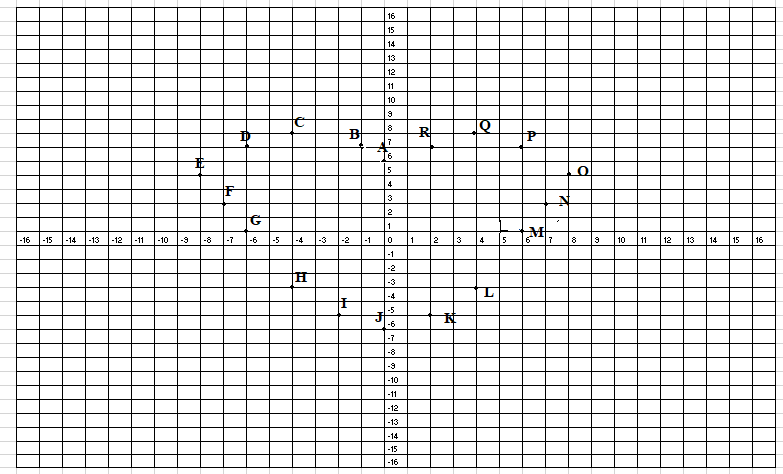
1. Plot the following coordinates onto a Cartesian plane**: (10)**

|  |  |  |  |
| --- | --- | --- | --- |
| A (0 ; 6 ) | B (-2 ;6 ) | C ( -4 ; 7 ) | D ( -6 ; 6 ) |
| E ( -8 ; 4 ) | F ( -7 ; 2 ) | G ( -6 ; 0 ) | H ( -4 ; -3 ) |
| I ( -2 ; -5 ) | J ( 0 ; -6 ) | K ( 2 ; -5 ) | L ( 4 ; -3 ) |
| M ( 6 ; 0 ) | N ( 7 ; 2 ) | O ( 8 ; 4 ) | P ( 6 ; 6 ) |
| Q ( 4 ; 7 ) | R ( 2 ; 6 ) |  |  |

2. Now reduce the figure by a factor of 2.

2.1 Plot the values on the same Cartesian plane as question 1. (15)

**MEMORANDUM**



**2.1**

