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| **Learning Objective:** | To be able to enlarge a shape and to be able to | **Date:** |  |
| describe enlargements. |  |

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| Image result for non calculator**Do NOW Activity:**   1. Calculate 47 x 123 2. Write the ratio 12:16 in its simplest form 3. How many sides does a pentagon have? 4. What is 15% of 84? 5. Simplify: 5a + 4a – 3a + 2a 6. What are the next two terms? Explain   7 11 15 19 | |
| NOTES: (If needed, make any notes to help you answer similar questions next week) | |
| PRIOR KNOWLEDGE CHECK:  You will need to be able to plot coordinates. If you need help with this (we will check during the lesson) please ask for help. | |
| **THE MAIN EVENT** | |
| Worked example 1.  Enlarge the below shape using a scale factor of 2. | Now try this:  Enlarge the below shape using a scale factor of 3. |
| Notes: | |
| Worked example 2.  Enlarge the below shape using a scale factor of 2, with a centre of enlargement of (0,1) | Now try this:  Enlarge the below shape using a scale factor of 3, with a centre of enlargement of (3.2) |
| Notes: | |
| Worked example 3:  On the grid enlarge the shape with a scale factor of centre (3,2). | Now try this:  Enlarge shape A by scale factor centre (0, 1) |
| Notes: | |
| Worked Example 4.  Describe fully the single transformation that maps shape P onto shape Q. | Now try this:  Describe fully the single transformation that maps shape B onto shape A. |
| Notes: | |

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| R.A.G. Questions  Enlarge the below shape using a scale factor of 2, with a centre of enlargement of (1,3) | Describe fully the single transformation that maps shape Q onto shape P. |

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| When considering your effort think about whether you have followed all instructions, made notes, marked your work and completed all the work that you were asked to do. | EFFORT  RED AMBER GREEN | UNDERSTANDING  1 2 3 |

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| **NOTES** |
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