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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 $\frac{1}{2}$ centre (3,2).  | Now try this: Enlarge shape A by scale factor $\frac{1}{3}$ 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. QuestionsEnlarge 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. | EFFORTRED AMBER GREEN | UNDERSTANDING1 2 3 |

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| **NOTES** |
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