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| **Learning Objective:**  | To be able to reflect a shape and to be able to | **Date:**  |  |
| describe reflections. |  |

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| Image result for non calculator**Do NOW Activity:** 1. Calculate 1.12 + 0.2
2. Convert 23 cm to mm

6 cm 1. Calculate $\frac{2}{3}$ of 24
2. What is the perimeter?

3 cm 1. Simplify: $x^{2} × x^{4}$
2. Estimate 321 x 12
 |
| NOTES: (If needed, make any notes to help you answer similar questions next week)  |
| PRIOR KNOWLEDGE CHECK: You will be aware that there are FOUR transformations. Reflections are just one of them. You will be able to recognise straight line graphs of y = x, y = -x, y = “a” and x = “a” If you need help with this (we will check during the lesson) please ask for help.  |
| **THE MAIN EVENT**  |
| Worked example 1. Reflect the shape below in the mirror line.  | Now try this: Reflect the shape below in the mirror line.  |
| Notes:  |
| Worked example 2. 1. Reflect shape A in the line x = 1, label the new shape B2. Reflect shape B in the line y = -2, label the new shape C | Now try this: 1. Reflect shape P in the line x = -2, label the new shape Q2. Reflect shape P in the line y = 1, label the new shape R |
| Notes:  |
| Worked example 3: Reflect shape A in the line y = x, label the new shape B | Now try this: Reflect shape P in the line y = x, label the new shape Q |
| Notes:  |
| Worked Example 4. Describe fully the single transformation that maps shape A onto shape B. | Now try this: Describe fully the single transformation that maps shape B onto shape A. |
| Notes: |

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| R.A.G. QuestionsReflect shape A in the line y = -x, label the new shape B | Describe fully the single transformation that maps shape C onto shape B. |

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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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