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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 of 24 2. What is the perimeter?   3 cm   1. Simplify: 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 B  2. 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 Q  2. 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. Questions  Reflect 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. | EFFORT  RED AMBER GREEN | UNDERSTANDING  1 2 3 |

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| **NOTES** |
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