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**Key vocabulary:**

* Enlargement
* Scale factor
* ****Centre of enlargement
* Object
* Image

**Task One**

Work out the scale factor for each of these enlargements

|  |  |
| --- | --- |
| **Scale factor: \_\_\_\_\_\_\_** | **Scale factor: \_\_\_\_\_\_\_** |
| **Scale factor: \_\_\_\_\_\_\_** | **Scale factor: \_\_\_\_\_\_\_** |

*There are two more on the next page …*

|  |  |
| --- | --- |
| **Scale factor: \_\_\_\_\_\_\_** | **Scale factor: \_\_\_\_\_\_\_** |

|  |
| --- |
| Explain how you found the scale factor of these enlargements |

**Task Two**

Now, find the position of the centre of enlargement in each case

|  |  |
| --- | --- |
| **Centre of enlargement: (\_\_\_\_\_\_, \_\_\_\_\_\_)** | **Centre of enlargement: (\_\_\_\_\_\_, \_\_\_\_\_\_)** |

*There are four more on the next page …*

|  |  |
| --- | --- |
| **Centre of enlargement: (\_\_\_\_\_\_, \_\_\_\_\_\_)** | **Centre of enlargement: (\_\_\_\_\_\_, \_\_\_\_\_\_)** |
| **Centre of enlargement: (\_\_\_\_\_\_, \_\_\_\_\_\_)** | **Centre of enlargement: (\_\_\_\_\_\_, \_\_\_\_\_\_)** |

|  |
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| Explain how you found the centre of enlargement |

**Task Three: the main event**

Use your observations to work out where the image is in each of these enlargements

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| Scale factor: 2  Centre of enlargement: (1, 4) |
| Scale factor: 3  Centre of enlargement: (5, 4) |
| Scale factor: 4  Centre of enlargement: (-6, -4) |