Chapter 6 Crossword Puzzle

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| --- | --- | --- | --- |
| centre of rotation | clockwise | counter clockwise  | dilation |
| enlargement | image | line of reflection | reduction |
| reflection | rotation | scale factor | successive translation |
| transformation | translation |  |  |

*Use the clues to identify the words from Chapter 6. Then, write the words in the crossword puzzle blank.*

**Across**

 **2.** A transformation that turns an object around a fixed point

 **6.** The end size or position of a figure after it has undergone a transformation

 **9.** Moving in a circular direction: north 🡪 west 🡪 south 🡪 east

**12.** A transformation that enlarges or reduces a figure by a constant amount

**13.** The mirror line about which an object is reflected

**14.** The constant amount by which a figure is enlarged or reduced

**Down**

 **1.** A pattern that is created by translating a figure multiple times using the same

 translation

 **3.** A transformation that slides an object along a linear path without changing its size

 or orientation

 **4.** A transformation in which an object is made smaller

 **5.** Moving in a circular direction: north 🡪 east 🡪 south 🡪west

 **7.** A transformation in which an object is made bigger

 **8.** A transformation in which an object is flipped about a line of reflection forming a

 mirror image

**10.** The fixed point around which an object is turned

**11.** Changing the position or size of a figure

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|  |  |  |  |  |  |  |  |  |  |  |  | **4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | **5** |  |  |  |  |  |  |  |  |  |  | **6** |  |  |   |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  | **9** |  |  |  |  |  |  |  |  |  | **10** |  |  |  |  |  |
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|  |  |  |  | **11** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **12** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **13** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  | **14** |  |  |  |  |  |  |  |  |  |  |  |  |  |
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