Match-Up

**Volume of Cubes and Cuboids**

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| **1** | Find the volume of the cube. | **5** | The volume is $420 cm^{3}. $Find $x$. | **9** | A cuboid with dimensions $12 cm$ by $24 cm$ by $40 cm$ is filled by $180$ identical cubes. What is the length of the side of a cube? |
| **2** | Find the volume. | **6** | The volume is $289 cm^{3}. $Find $x$. | **10** | The volume of a cube is twice the volume of a cuboid with dimensions $3 cm$ by$ 4 cm$ by $9 cm$. Find the side length of the cube. |
| **3** | Find the volume. | **7** | Find the side length of a cube with volume $3375 cm^{3}$. | **11** | A cuboid has side lengths in the ratio $2 : 4 : 5$. If the shortest side length is $5 cm$, find the volume of the cuboid. |
| **4** | Find the volume. | **8** | Find the volume of a cuboid whose side lengths in $cm$ are the first, third and fifth prime numbers. | **12** | A cuboid has sides of length $x$, $x$ and $3x$. Its volume is $1536 cm^{3}$. Find the value of $x$. |

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| **A** | $$15 cm$$ | **D** | $$8 cm$$ | **G** | $$10.5 cm$$ | **J** | $$4 cm$$ |
| **B** | $$110 cm^{3}$$ | **E** | $$8.5 cm$$ | **H** | $$625 cm^{3}$$ | **K** | $$125 cm^{3}$$ |
| **C** | $$6 cm$$ | **F** | $$375 cm^{3}$$ | **I** | $$96 cm^{3}$$ | **L** | $$1125 cm^{3}$$ |

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| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
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