|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rectangular Prism | Length (cm) | Width (cm) | Height(cm) | Volume (cubic cm) | Check |
| A |  |  |  |  |  |
| B |  |  |  |  |  |
| C |  |  |  |  |  |
| D |  |  |  |  |  |
| E |  |  |  |  |  |
| F |  |  |  |  |  |
| G |  |  |  |  |  |
| H |  |  |  |  |  |
| I |  |  |  |  |  |

**Volume of Rectangular Prisms Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Measure the length, width, and height of the rectangular prism. Measure to the nearest centimeter.
2. Fill the rectangular prism with cubic centimeter blocks. Record how many blocks fit inside the rectangular prism (volume).
3. Look for patterns. Can you predict how many blocks will fit inside a rectangular prism?

**Volume of Rectangular Prisms—KEY**

1. Measure the length, width, and height of the rectangular prism. Measure to the nearest centimeter.
2. Fill the rectangular prism with cubic centimeter blocks. Record how many blocks fit inside the rectangular prism (volume).
3. Look for patterns. Can you predict how many blocks will fit inside a rectangular prism?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rectangular Prism | Length (cm) | Width (cm) | Height(cm) | Volume (cubic cm) | Check |
| A | **8** | **3** | **1** | **24** | **8 × 3 × 1 = 24** |
| B | **4** | **4** | **3** | **48** | **4 × 4 × 3 = 48** |
| C | **5** | **4** | **2** | **40** | **5 × 4 × 2 = 40** |
| D | **5** | **2** | **3** | **30** | **5 × 2 × 3 = 30** |
| E | **6** | **4** | **3** | **72** | **6 × 4 × 3 = 72** |
| F | **8** | **6** | **3** | **144** |  **8 × 6 × 3 = 144** |
| G | **7** | **4** | **3** | **84** | **7 × 4 × 3 = 84** |
| H | **6** | **2** | **4** | **48** | **6 × 2 × 4 = 48** |
| I | **3** | **3** | **3** | **27** | **3 × 3 × 3 = 27**  |