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| **1.** | A box has a base area of 5 square inches and a volume of 82.25 cubic inches. How tall, in inches, is the box? |
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| **2.** | A certain toy box has dimensions 1 1/2 feet by 2 1/4 feet by 1/4 feet. A company is selling them in bulk, and the shipping box is 48 inches x 3 feet x 5 feet. About how many flash drives can fit in each shipping box? |
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| **3.** | https://i.gyazo.com/da0ced3d39178e6b6e04f61c309a1d02.png |
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| **4.** | The rectangular prism has 24 cubes. The side Length of each cube is $\frac{5}{2}$. What is the volume ofCube?. |
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| **A.** | 24 cubic inches |

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| **B.** | 375 cubic inches |

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| **C.** | 15.625 cubic inches |

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| **D.** | 13,824 cubic inches |

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| **5.** | https://i.gyazo.com/f26102ce4d77d45e18449aa2b7eba5bb.png |
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|  | **6.** A right rectangular prism has edge lengths of 2 $\frac{1}{2}$ inches, 2 inches, and 3 $\frac{3}{4}$ inches. How many cubes with $\frac{1}{4}$–inch edge lengths would be needed to fill the prism completely? A. 64 B. 18.75 C. 1,200 D. 12 |
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| **7.** | The right rectangular prism below is made up of 12 cubes. The edge of each cube measures $\frac{2}{3}$ cm. /files/assess_files/bf5402a8-4975-4907-9ee1-db061cfb273d/49906.png What is the volume of the rectangular prism? |
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A. 3$\frac{5}{9}$ cm cubed C. 24 cm cubed

B. 12 cm cubed D. 5$\frac{1}{3}$ cm cubed

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| **8.** | The side lengths of Cube 1 are$\frac{1}{4}$ inch. The side lengths of Cube 2 are 5 inches. /files/assess_files/bf5402a8-4975-4907-9ee1-db061cfb273d/49749.png How many Cube 1s would be needed to fill Cube 2? |
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| A.  | 512 B. 64 C. 125 D. 8,000 |
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| **9.** | A prism has a square base with a side length of 6 $\frac{1}{2}$ feet. The height of the prism is 8 feet. What is the volume of the prism? |
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| **A.** | 52 ft3 |

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| **B.** | 338 ft3 |

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| **C.** | 84.5 ft3 |

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| **D.** | 1.23 ft3 |

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| **10.** | A box in the shape of a rectangular prism has a volume of 425 cm3 and a height of /files/assess_files/448e79a2-d57c-4a38-8ab6-d525cd14ef0a/13912ea2-8100-40d5-909c-261f5c9a4bfa.png cm. Which choice could be the length and width of the rectangular prism? |
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| **A.** | length: 50 cm width: 25 cm |

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| **B.** | length: 18 cm width: 10 cm |

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| **C.** | length: 10 cm width: 5 cm |

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| **D.** | length: 25 cm width: 25 cm |

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| **11.** | A square prism has a base area of /files/assess_files/8244a943-ec28-4823-80fb-b885daff7d6e/fca3c252-c330-422d-a83c-e0f14cb9ada1.png in.2 The height of the prism is 6 $\frac{3}{4}$ in.What is the volume of the prism? |
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| **A.** | 992 in.3 |

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| **B.** | 72 in.3 |

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| **C.** | 1012 $\frac{59}{64}$ in.3 |

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| **D.** | 82 $\frac{11}{16}$ in.3 |

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| **12.** | A package for number cubes is in the shape of a right rectangular prism. The package holds 3 cubes across, 4 cubes high, and 6 cubes deep. Each edge of each number cube measures $\frac{1}{3} $of an inch. What is the volume of the package? |
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| **A.** | 2$\frac{2}{3}$ cubic inches |

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| **B.** | 72 cubic inches |

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| **C.** | 27 cubic inches |

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| **D.** |  1944 cubic inches |

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