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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 . What is the volume of  Cube?  . |
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|  | |  |  | | --- | --- | | **A.** | 24 cubic inches | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 375 cubic inches | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 15.625 cubic inches | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 13,824 cubic inches | |
|  |  |
|  |  |
| **5.** | https://i.gyazo.com/f26102ce4d77d45e18449aa2b7eba5bb.png |
|  |
|  | **6.** A right rectangular prism has edge lengths of 2 inches, 2 inches, and 3 inches. How many cubes with –inch edge lengths would be needed to fill the prism completely?  A. 64 B. 18.75 C. 1,200 D. 12 |
|  |
| **7.** | The right rectangular prism below is made up of 12 cubes. The edge of each cube measures cm.   /files/assess_files/bf5402a8-4975-4907-9ee1-db061cfb273d/49906.png  What is the volume of the rectangular prism? |
|  |

A. 3 cm cubed C. 24 cm cubed

B. 12 cm cubed D. 5 cm cubed

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| **8.** | The side lengths of Cube 1 are 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 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 | |
|  |  |
|  | |  |  | | --- | --- | | **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 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | length: 18 cm  width: 10 cm | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | length: 10 cm  width: 5 cm | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | length: 25 cm  width: 25 cm | |
|  |  |
| **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 in.What is the volume of the prism? |
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|  | |  |  | | --- | --- | | **A.** | 992 in.3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 72 in.3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 1012 in.3 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 82 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 of an inch. What is the volume of the package? |
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|  | |  |  | | --- | --- | | **A.** | 2 cubic inches | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 72 cubic inches | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 27 cubic inches | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 1944 cubic inches | |
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