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| **Volume Assessment 2017 [1518267]** | |
| Student |  |
| Class |  |
| Date |  |

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| **1.** | What is the volume of this triangular right prism?  /files/assess_files/ecdb185b-e4fc-4215-973a-6f82014caf17/images/24953.png |
|  |
|  | |  |  | | --- | --- | | **A.** | 165 ft3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 330 ft3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 1,073 ft3 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 2,145 ft3 | |
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| **2.** | **The net below can be folded to make a solid figure.**  /files/assess_files/d94cc894-2106-4fde-a5af-f1931f9e74d1/I50655_17.jpg  **What is the volume, in cubic units, of the figure made by folding the net?** |
|  |
|  | |  |  | | --- | --- | | **A.** | 150 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 125 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 70 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 25 | |
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| **3.** | The square pyramid below has a height of 18 mm.  /files/assess_files/a0bd8fc4-f009-47f2-9863-0350996931a1/I382986_1.png  What is the volume of the square pyramid? |
|  |
|  | |  |  | | --- | --- | | **A.** | 864 mm3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 1,080 mm3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 2,592 mm3 | |
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| **4.** | **The figure below is a triangular prism.**  /files/assess_files/5e91a644-f214-4f14-a908-e1f3d6f48813/I48244_52.jpg  **What is the volume of the prism if the area of its base is 14 square centimeters?** |
|  |
|  | |  |  | | --- | --- | | **A.** | 32 cubic centimeters | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 126 cubic centimeters | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 252 cubic centimeters | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 324 cubic centimeters | |
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| **5.** | **What is the volume, in cubic yards, of a pyramid that has a height of 10 yards and a square base that measures 3 yards on each side?** |
|  |
|  | |  |  | | --- | --- | | **A.** | 15 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 30 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 60 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 90 | |
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| --- | --- |
| **6.** | data:image/png;base64,**Find the volume of the triangular pyramid in cubic miles.** |
|  |
|  | |  |  | | --- | --- | | **A.** | 240 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 80 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 400 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 480 | |
|  |  |
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| **7.** | data:image/png;base64,**Find the volume of the triangular pyramid in cubic miles.** |
|  |
|  | |  |  | | --- | --- | | **A.** | 80 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 48 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 24 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 8 | |
|  |  |
|  |  |

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| **8.** | A rectangular prism has a length of 8 cm, a height of 2 cm and a volume of 96 cubic centimeters.  What is the width of the rectangular prism? |
|  |
|  | |  |  | | --- | --- | | **A.** | 6 cm | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 3 cm | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 12 cm | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 4 cm | |
|  |  |
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| **9.** | The base of a triangular prism has an area of 20 cm2.  The volume of the prism is 220 cubic centimeters.  What is the height of the triangular prism? |
|  |
|  | |  |  | | --- | --- | | **A.** | 22 cm | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 6 cm | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 5.5 cm | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 11 cm | |
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| **10.** | A storage unit, in the shape of a right rectangular prism, has dimensions of /files/assess_files/5c6dae1f-6ecd-4549-9f3b-f4ee440684d2/I381062_1.png feet by 16 feet by 24 feet. What is the volume of the storage unit? |
|  |
|  | |  |  | | --- | --- | | **A.** | 164 feet3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 393 feet3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 3,072 feet3 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 3,360 feet3 | |
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