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| **2018 CMS 6th Grade Unit 1 Test [2502271]** | |
| Student |  |
| Class |  |
| Date |  |

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| **1.** | **What is the area, in square units, of the shaded rhombus shown below?**  /files/assess_files/33c41b82-902d-44a7-a258-a129c3502be8/image/190118.jpg |
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| **2.** | **What is the area, in square units, of the shaded triangle shown below?**  /files/assess_files/43bf250b-e040-41bf-82a6-b3f034419a79/image/190114.jpg |
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| **3.** | **The net of a triangular pyramid is shown. A pyramid will be constructed by this pattern, but it will not have a base.**  /files/assess_files/30e63bb7-d925-4bbb-b5dd-b1a9a0276181/196087.jpg  **What is the surface area of the faces of the pyramid? Record your answer in square inches.** |
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| **4.** | **The net of a rectangular prism is shown.**  /files/assess_files/30e63bb7-d925-4bbb-b5dd-b1a9a0276181/196072.jpg  **What is the surface area, in square inches, of the figure shown in the net?** |
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| **5.** | **Nancy’s toy kite is shown with the side lengths labeled.**  https://i.gyazo.com/ca3912f9781c92884aa7301d38636917.png  **What is the area of her kite?** | | |
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|  | |  |  | | --- | --- | | **A.** | 20 square inches | |  | |  |  | | --- | --- | | **B.** | 24 square inches | |
|  | |  |  | | --- | --- | | **C.** | 25 square inches | |  | |  |  | | --- | --- | | **D.** | 40 square inches | |
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| **6.** | **The measurements for the parallelogram are given in meters.**  /files/assess_files/beefcfc0-1919-4a8f-9a3b-d95e7ea9d08f/140548.jpg  **What is the area of this parallelogram, in square meters?** | | |
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|  | |  |  | | --- | --- | | **A.** | 360 | |  | |  |  | | --- | --- | | **B.** | 390 | |
|  | |  |  | | --- | --- | | **C.** | 516 | |  | |  |  | | --- | --- | | **D.** | 750 | |
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| **7.** | Derek drew a picture of the stop sign shown in this diagram.    /files/assess_files/3e2ede57-3889-4ad8-bcad-9624f87c60ab/image/476506e0-53a3-4275-b172-465f183ee9dd.gif  What is the area, in square inches, of Derek’s stop sign? | | |
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|  | |  |  | | --- | --- | | **A.** | 338 | |  | |  |  | | --- | --- | | **B.** | 380 | |
|  | |  |  | | --- | --- | | **C.** | 478 | |  | |  |  | | --- | --- | | **D.** | 576 | |
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| **8.** | **What is the area of this triangle?**  /files/assess_files/55c69eb8-b3d8-42fd-86d2-088202a92b25/image/160173.jpg | | |
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|  | |  |  | | --- | --- | | **A.** | 24 /files/assess_files/7f9d537b-b91b-4566-b423-20cd78e489ce/f692cef5-35a2-412a-8012-73c41993571b.png | |  | |  |  | | --- | --- | | **B.** | 30 /files/assess_files/bc7d58b5-f68b-407d-8179-390291bf9e64/91e11157-6612-4ec5-8192-383c8795cbb9.png | |
|  | |  |  | | --- | --- | | **C.** | 40 /files/assess_files/526959cb-0b3f-4efc-a07c-0a374025376f/3882d0e8-fc75-454f-a923-4b758c500d9a.png | |  | |  |  | | --- | --- | | **D.** | 48 /files/assess_files/c3cb795d-a42f-44c8-87c9-65fa20b9e982/23b06e47-33b8-4258-a135-39f2e25fb7af.png | |
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| **9.** | What is the area of the figure below if the measurements shown are in inches?    /files/assess_files/4cb2e982-0656-40cb-a762-2b3fdfa0247c/images/8bb00b79-aa3c-436d-8f86-5f2409b027f5_a356490.gif | | |
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|  | |  |  | | --- | --- | | **A.** | /files/assess_files/f7140447-1ae6-415b-95d6-d711eb3170be/images/b9d9f05e87760bfbf55e4b85f976e2ad.png | |  | |  |  | | --- | --- | | **B.** | /files/assess_files/f88775b9-d9e8-41ea-9ea3-d7527f7b135f/images/dc12803612050fee4746cb95dee32e45.png | |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/6c0418d5-de97-4150-8062-613820a24b73/images/36e29e828d16eb4aff1ca316b6c98e52.png | |  | |  |  | | --- | --- | | **D.** | /files/assess_files/408b8a58-22e2-4894-b78a-e9509e116177/images/0b70e9b575b977ee77660aff276517ef.png | |
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| **10.** | What is the area of the triangle with a base measure of 7 inches and a height measure of 12 inches? | | |
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|  | |  |  | | --- | --- | | **A.** | 19 in.2 | |  | |  |  | | --- | --- | | **B.** | 38 in.2 | |
|  | |  |  | | --- | --- | | **C.** | 42 in.2 | |  | |  |  | | --- | --- | | **D.** | 84 in.2 | |
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| **11.** | What is the area of the shaded triangle?  /files/assess_files/f6552577-1003-451b-b676-4f91d7d0f3e1/images/d0f9cc28-c005-489a-afd7-4bc6274e9f24_a403828.gif | | |
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|  | |  |  | | --- | --- | | **A.** | /files/assess_files/5f28dbcf-7a8d-4363-a385-2c06e42c142a/images/3c2afaaf38e8091295d52fc3d53c48e2.png | |  | |  |  | | --- | --- | | **B.** | /files/assess_files/c2d67cec-d031-4ba2-90ca-feda3110c0b8/images/0cebec0057ec0fbd975f8c94f292b429.png | |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/83abfea4-bcfc-48b6-b2a1-7375ea3c2a59/images/bcff6fa59e40e3554d66327be3df366e.png | |  | |  |  | | --- | --- | | **D.** | /files/assess_files/866da718-32b1-4735-8914-031e04f425a1/images/791207716ddd8d1be74ca5fd899ff2da.png | |
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| **12.** | **If the area of Triangle *ABD* is 12 square units, what is the area of Rectangle *ABCD*?**  /files/assess_files/670aeed5-6888-42e7-a79b-7e0e85c38a88/173068.jpg | | |
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|  | |  |  | | --- | --- | | **A.** | 6 square units | |  | |  |  | | --- | --- | | **B.** | 12 square units | |
|  | |  |  | | --- | --- | | **C.** | 24 square units | |  | |  |  | | --- | --- | | **D.** | 48 square units | |
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| **13.** | The net of a square pyramid is shown below.  /files/assess_files/a9a9c21c-b2f4-4b2c-bd82-b06a1ff9b058/I381120_1.png  What is the surface area of the square pyramid? | | |
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|  | |  |  | | --- | --- | | **A.** | 240 cm2 | |  | |  |  | | --- | --- | | **B.** | 340 cm2 | |
|  | |  |  | | --- | --- | | **C.** | 580 cm2 | |  | |  |  | | --- | --- | | **D.** | 780 cm2 | |
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| **14.** | **What 3-dimensional figure can be created by folding the shape below on the dashed lines?**  /files/assess_files/093669fa-f08e-4576-acb3-81673e7eea41/168396.jpg | | |
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|  | |  |  | | --- | --- | | **A.** | cube | |  | |  |  | | --- | --- | | **B.** | prism | |
|  | |  |  | | --- | --- | | **C.** | pyramid | |  | |  |  | | --- | --- | | **D.** | triangle | |
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| **15.** | The net of a cube with a 7-mm side length is shown below.  /files/assess_files/86dc0cb4-5d7b-41e2-b71c-1693f5cb63a4/I381088_1.png  What is the surface area of the cube? | | |
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|  | |  |  | | --- | --- | | **A.** | 245 mm2 | |  | |  |  | | --- | --- | | **B.** | 252 mm2 | |
|  | |  |  | | --- | --- | | **C.** | 294 mm2 | |  | |  |  | | --- | --- | | **D.** | 343 mm2 | |
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| **16.** | What is the surface area of the triangular prism?   /files/assess_files/f610f06f-f7da-445b-92ab-e9a6eee4cb7e/I381057_1.png | | |
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|  | |  |  | | --- | --- | | **A.** | 1,440 m2 | |  | |  |  | | --- | --- | | **B.** | 840 m2 | |
|  | |  |  | | --- | --- | | **C.** | 600 m2 | |  | |  |  | | --- | --- | | **D.** | 480 m2 | |
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| **17.** | The object below is a triangular prism and its net.  /files/assess_files/a2c05f29-ec43-41d2-8bb7-bc067ea9ec16/images/42533b77-1b85-4602-b9a2-217b6dc54e97_279 stem art.jpg  What is the surface area of this triangular prism in square units? | | |
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|  | |  |  | | --- | --- | | **A.** | 906 | |  | |  |  | | --- | --- | | **B.** | 912 | |
|  | |  |  | | --- | --- | | **C.** | 960 | |  | |  |  | | --- | --- | | **D.** | 1,056 | |
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| **18.** | A rectangular prism is shown below.   /files/assess_files/d21415d0-aa2d-40f1-aa56-6afb9e9ec1bf/I381552_1.png  What is the surface area of the rectangular prism? | | |
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|  | |  |  | | --- | --- | | **A.** | 444 in.2 | |  | |  |  | | --- | --- | | **B.** | 528 in.2 | |
|  | |  |  | | --- | --- | | **C.** | 560 in.2 | |  |
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| **19.** | **What 3-dimensional figure can be created by folding the shape shown below on the dotted lines?**  /files/assess_files/cbc50def-f657-4c09-99ce-918c421228e2/169903.jpg | | |
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|  | |  |  | | --- | --- | | **A.** | cube | |  | |  |  | | --- | --- | | **B.** | prism | |
|  | |  |  | | --- | --- | | **C.** | pyramid | |  | |  |  | | --- | --- | | **D.** | triangle | |
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| **20.** | Mia made a pencil box in the shape of a right rectangular prism.  /files/assess_files/f54ad256-a2fb-4cfe-8ad6-e9bf046a86b0/I380935_1.png  What is the surface area of the box? | | |
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|  | |  |  | | --- | --- | | **A.** | 390 cm2 | |  | |  |  | | --- | --- | | **B.** | 604 cm2 | |
|  | |  |  | | --- | --- | | **C.** | 840 cm2 | |  | |  |  | | --- | --- | | **D.** | 1,260 cm2 | |
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