**M7 - Unit 11: Three-Dimensional Figures STUDY GUIDE Name \_\_\_\_\_\_\_\_\_\_\_\_**

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| --- | --- |
| **1. Name the space figure you can form from the net.**  1. | **2. Name the space figure you can form from the net.** |
| **3.** Identify the base or bases of each figure. Then name the figure. | **4.** Identify the base or bases of each figure. Then name the figure. |
| **5.** Identify the base or bases of each figure. Then name the figure. | 6. Tell what solids make up the figure. |
| 7.Identify the number of faces, edges, and vertices on the solid figure. | 8.Identify the number of faces, edges, and vertices on the solid figure. |
| 9. Determine the surface area of the prism. | Work for #9: |
| 10. To determine the amount of wrapping paper needed for a rectangular box, Ryan finds the surface area of the box.How much wrapping paper is needed if the box measures 12 cm by 6 cm by 8 cm? **Draw a picture.** |  |
| 11. Find the surface area *S* of the prism. |  |
| 12. Find the surface area of the figure to the nearest hundredth. |  |
| 13. A student constructs a regular square pyramid with a base that has sides of 6.4 cm and a slant height of 10.5 cm. Find the surface area of this pyramid. **Draw a picture.** |  |
| 14. Determine the volume of the prism by finding the number of cubes that it contains. |  |
| 15. Find the volume of the rectangular prism to the nearest tenth. |  |
| 16.Find the volume of a rectangular prism with a base of 5 mm by 7 mm and height of 14 mm. Round to the nearest tenth. **Draw a picture.** |  |
| 17.Find the volume of the triangular prism to the nearest tenth. |  |
| 18. Find the volume of the triangular prism. |  |
| 19. Find the volume of the figure. |  |
| 20. Find the volume of the square pyramid to the nearest cubic unit. |  |

**M7 - Unit 9: Three-Dimensional Figures STUDY GUIDE**

**Answer Section**

**SHORT ANSWER**

1. rectangular pyramid

2. triangular prism

3. Bases = 1 decagon

Name = decagonal pyramid

4. Hexagonal prism

5. Triangular prism

6. A hexagonal pyramid and a hexagonal prism

7. Faces = 6

Edges = 12

Vertices = 8

8. Faces = 4

Edges = 6

Vertices = 4

9. 234.76 m2

10. 432 cm2

11. 296.5 cm2

12. 193.44 cm2

13. 175.36 cm2

14. 108 cubic units

15. 227.9 cm3

16. 490 mm3

17. 580.1 ft3

18. 244.6875 ft3

19. 3,900 yd3

20. 85 m3