Unit 1 Study Guide

Find the Volume of each 3D figure

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| 1.triangle1 | 2.  10 cm  7 cm | 3. |
| 4. | 5. | 6.  Image result for volume of a triangular prism |

Identify each angle relationship

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| Image result for Angle Relationships | 7. <1 and <8  8. <4 and <5  9. <2 and <6  10. <6 and <7  11. <5 and <6 |

Parallelograms

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| 12. Find y and n, then find the length of all sides and angles.  W 3n-15 X    Z 2n + 3 Y  (3y + 37)0  (6y +4)0  27 | 13. Find the value of x, y, and z then find the value of each angle |

Centers of Triangles

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| *Point G is* the *centroid* of ∆ *ABC, AD =* 8, *AG =* 10, BE = 10, AC = 16 and CD =18 | 14. DB = \_\_\_\_\_\_\_\_\_\_  15. EA = \_\_\_\_\_\_\_\_\_\_  16. CG = \_\_\_\_\_\_\_\_\_\_  17. BA = \_\_\_\_\_\_\_\_\_\_  18. GE = \_\_\_\_\_\_\_\_\_\_  19. GD = \_\_\_\_\_\_\_\_\_\_  20. BC = \_\_\_\_\_\_\_\_\_\_  21. AF = \_\_\_\_\_\_\_\_\_\_ |
| Use  where D, E, and F are midpoints of the sides  6x + 11  x + 23  3y - 9  2y + 6 | 22. If DE = 8 and GJ = 3x, find GJ.    23. If EF = 2x and GH = 12, find EF.  24. If HJ = 8x − 2 and DF = 2x + 11, find HE.    25. If HD = 3x + 29 and DG = 14 x + 7, find EF. |
| is the angle bisector.  A  B  C  D  5  20° | 26. Find the measure of BD and the m<BAD  27. Find x if m<BAD=20 and m<BAC = 7x+5. |

Cross Sections

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| **cube**  Image result for cube  28. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  cross section perpendicular to  the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **cone**  Image result for cone  29. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Sphere**Image result for sphere  30. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Cylinder**Image result for cylinder  31. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Rectangular Prism**  Image result for rectangular prism  32. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Square Pyramid**  Image result for square pyramid  33. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |