Unit 1 Study Guide

Find the Volume of each 3D figure

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| 1.triangle1 | 2.10 cm7 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 <88. <4 and <59. <2 and <610. <6 and <711. <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 sides6x + 11x + 233y - 92y + 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. ABCD520° | 26. Find the measure of BD and the m<BAD27. Find x if m<BAD=20 and m<BAC = 7x+5. |

Cross Sections

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| **cube** Image result for cube28. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **cone**Image result for cone29. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Sphere**Image result for sphere30. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Cylinder**Image result for cylinder31. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Rectangular Prism**Image result for rectangular prism32. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Square Pyramid**Image result for square pyramid33. cross section parallel to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cross section perpendicular to the base\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |