Geometry YL - HW Assignments for Chapter 10: Spatial Reasoning

\*Required problems for each section are due on the day of the Daily Assessment

\*If extra practice is needed, work through more problems listed

\*Any practice problem listed in bold can replace a required problem

\*Practice problems listed in bold are more challenging

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| **10.1 Solid Geometry** | Practice Problems | Required Problems |
| Outcome 1: I can classify a 3-dimensional figure and name its vertices, edges, and bases. | Pg. 657: 1-4, 13-15, 28-33, 37a,b, **39**, 42, **48-50** | 2, 4, 15, 28, 31 |
| Outcome 2: I know how to identify a 3-dimensional figure from a net, and I can draw the net of a 3-D figure. | Pg. 657: 5-7, 16-18, 34-36, 37c, **40**, 41 | 7, 18, 34, 35 |
| Outcome 3: Given a 3-dimensional figure, I can describe the vertical and horizontal cross section. | Pg. 657: 8-12, 19-27, 43-47, **51** | 9, 10, 11 |

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| **10.2 Representations of Three-Dimensional Figures** | Practice Problems | Required Problems |
| Outcome 1: I can draw all six orthographic views of a given object. | Pg. 665: 2-4, 11, 14-16, 23, 29, **30-33**, 35, 36, **41** | 14, 35, 36 |
| Outcome 2: I know how to draw an isometric view of a given object. | Pg. 665: 5-7, 10, 17-19, 25, 27, 28 | 5, 6, 25 |
| Outcome 3: Given an object, I can draw a one-point and two-point perspective. | Pg. 665: 1, 8, 9, 12, 13, 20-22, 24, 26, **34**, **38-40** | 8, 22, 24 |

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| **10.4 Surface Area of Prisms and Cylinders** | Practice Problems | Required Problems |
| Outcome 1: I can find the lateral area and surface area of a right prism. | Pg. 684: 2-4, 13-15, 23, 25, 26, 34, 37, 39, **43** | 2, 25 |
| Outcome 2: I can find the lateral area and surface area of a right cylinder. | Pg. 684: 5-7, 12, 16-18, 24, 28-31, 34, 38, 40, **41** | 17, 24 |
| Outcome 3: I can find the surface area of composite three-dimensional figures. | Pg. 684: 8, 9, 19, 20, **42** | 8 |
| Outcome 4: I know how to describe the effect on the surface area when given a change on the dimensions of a given figure. | Pg. 684: 10, 11, 21, 22, 32, 33 | 11, 21, 33 |

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| **10.6 Volume of Prisms and Cylinders** | Practice Problems | Required Problems |
| Outcome 1: I know how to find the volume of a prism. | Pg. 701: 2-5, 13-16, 27, 28, 31, 32, 34, 38-40, **41, 43** | 2, 13, 27 |
| Outcome 2: I know how to find the volume of a cylinder. | Pg. 701: 6-8, 17-19, 24-26, 29, 33, 37, 39, **42, 44** | 17, 29, 33 |
| Outcome 3: I can find the volume of composite three-dimensional figures. | Pg. 701: 11, 12, 22, 23 | 12, 23 |
| Outcome 4: I know how to describe the effect on the volume when given a change on the dimensions of a given figure. | Pg. 701: 9, 10, 20, 21, 35, 36 | 20, 21 |

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| **10.5 Surface Area of Pyramids and Cones** | Practice Problems | Required Problems |
| Outcome 1: I can find the lateral area and surface area of a pyramid. | Pg. 693: 2-4, 13-15, 24, 25, 28, 30, 31, 35, **36**, 38, 39, **42** | 3, 30 |
| Outcome 2: I can find the lateral area and surface area of a right cone. | Pg. 693: 5-7, 12, 16-18, 23, 26, 27, **29**, 37, 40, **41, 43** | 5, 7 |
| Outcome 3: I know how to find the surface area of composite three-dimensional figures. | Pg. 693: 10, 11, 21, 22, 33, 34 | 10, 11 |
| Outcome 4: I know how to describe the effect on the surface area when given a change on the dimensions of a given figure. | Pg. 693: 8, 9, 19, 20 | 8, 9 |

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| **10.7 Volume of Pyramids and Cones** | Practice Problems | Required Problems |
| Outcome 1: I know how to find the volume of a pyramid. | Pg. 709: 2-4, 13-16, 28-31, 32, 35, **39**, 43, 45, **49** | 2, 32 |
| Outcome 2: I know how to find the volume of a cone. | Pg. 709: 6-8, 17-19, 24-27, 33, 34, 36, 38, 40-42, 44, **46-48, 50** | 8, 27 |
| Outcome 3: I can find the volume of composite three-dimensional figures. | Pg. 709: 5, 11, 12, 22, 23 | 11, 12 |
| Outcome 4: I can describe the effect on the volume when given a change on the dimensions of a given figure. | Pg. 709: 9, 10, 20, 21 | 20, 21 |

Chapter 10 Study Guide Review: pg. 730, skip sections 10.3 and 10.8