

Measurement Test Review

Section 8.1 - Maximum Area and Minimum Perimeter

Key Formulas: $P = 4s$ and $A = s^2$

Complete: p. 460 #3

Section 8.2 - Area of Composite Shapes

Key Formulas: $A = l \times w$ $A = \pi r^2$ $P = 2(l + w)$ $A = (b \times h) \div 2$ $P = n \times s$

Complete: p. 484 #8 and p. 440 #1, 2.

Section 8.3 - The Pythagorean Theorem

Key Formulas: $a^2 + b^2 = c^2$ $c = \sqrt{a^2 + b^2}$

Complete: p. 484 #9, 10

Section 8.4 - Surface Area of Pyramids and Cones

Key Formulas: $SA = 2bL + b^2$ $SA = \pi r^2 + \pi rL$

Complete: p. 460 #8

Section 8.5 - Volume of Pyramids and Cones

Key Formulas: $V = \frac{1}{3}Ah$ $V = \frac{1}{3}\pi r^2 h$

Complete: p. 485 #17 (Calculate volume only)

Section 8.6 - Surface Area and Volume of a Sphere

Key Formulas: $SA = 4\pi r^2$ $V = \frac{4}{3}\pi r^3$

Complete: p. 485 #20 and review Example Three from note.

Section 8.8 - Optimum Volume and Surface Area

Key Formulas: Cube: $V = s^3$ $SA = 6s^2$

 Cylinder: $V = 2\pi r^3$ $SA = 6\pi r^2$ $h = 2r$

Complete: p. 485 #24.