

Honors Geometry
Unit 7 Assignment Sheet

Area and Volume

Day	Date	Topics	Homework
1	Mon., 4/16	7-1: Areas of Parallelograms & Triangles 7-4: Areas of Trapezoids, Rhombi, & Kites	p. 351 2, 10, 12, 14, 24, 26, 30, 42, 48 p. 376 4, 8, 12, 14, 18, 20, 22, 26, 30, 34, 36
2	Tues., 4/17	7-5: Areas of Regular Polygons 9-5: Trigonometry & Area	p. 382 2-12 E; 13-15 A; 20, 22, 28 p. 500 2, 4, 12, 16, 18, 24
3	Wed., 4/18	Review QUIZ	
4	Thurs., 4/19	10-5: Volumes of Prisms & Cylinders 10-6: Volumes of Pyramids & Cones	p. 547 6, 10, 14, 18, 26, 28, 32, 34 p. 554 6, 10, 12, 14, 20, 26
5	Fri., 4/20	10-7: Volume of Spheres 10-8: Area and Volume of Similar Solids Composite Space Figures	p. 560 2, 6, 8, 14, 20, 24, 30 p. 569 8-16 E p. 548 (12, 15) p. 555 (18) p. 562 (40; VOLUME only)
6	Mon., 4/23	Unit 7 Review Sheet	Finish review sheet and <u>STUDY!!</u>
7	Tues., 4/24	Unit 7 Test	

Additional Practice:

- Checkpoint Quiz 1: p. 372 exs. 1-10 (leave answer to #10 in simplest radical form)
- Checkpoint Quiz 2: p. 400 exs 1-10
- Chapter Review: p. 409 1-31 all
- Chapter Test p. 412 1-26 all; omit 23
- Extra Practice p. 696 exs 1-24

Vocabulary:

adjacent arcs
 altitude of a parallelogram
 apothem of a regular polygon
 base of a parallelogram
 base of a triangle
 center of a circle
 center of a regular polygon

central angle
 height of a parallelogram
 height of a trapezoid
 height of a triangle
 radius
 radius of a regular polygon

Formulas:

Polygon	Perimeter	Area
Rectangle	$P = 2L + 2W$	$A = LW$ or $A = bh$
Square	$P = 4S$	$A = s^2$
Parallelogram	$P = 2L + 2W$	$A = bh$
Triangle	$P = S_1 + S_2 + S_3$	$A = \frac{1}{2}bh$
Regular polygon	$P = ns$ Where "n" is number of sides & "s" is the length of a side	$A = \frac{1}{2}ap$
Trapezoid	Add all sides	$A = \frac{1}{2}h(b_1 + b_2)$
Rhombus	$P = 4s$	$A = \frac{1}{2}d_1 \cdot d_2$
Kite	Add all sides	$A = \frac{1}{2}d_1 \cdot d_2$
Circle	$C = \pi d$ or $C = 2\pi r$	$A = \pi r^2$

Theorem: If the similarity ratio of two similar solids is a:b, then

- (a) the ratio of their corresponding perimeters is a:b
 (b) the ratio of their corresponding areas is $a^2:b^2$
 (c) the ratio of their corresponding volumes is $a^3:b^3$

Formulas

Figure	V (volume)
Prism	Bh
Pyramid	$\frac{1}{3}Bh$
Sphere	$\frac{4}{3}\pi r^3$