

Midterm Exam InformationDate: Jan. 11 A-Day
Jan. 12 B-Day classes

- Format:**
- Part 1 Multiple Choice**
- No calculators
- Part 2 Short Answer/Extended Response**
- You may use a calculator

The Math Reference Sheet(bright green) will be provided for the entire test.

Concepts/Skills: This is a **cumulative test** so **all** concepts and skills learned this year could be on the test.

Note Page	Concept/skill	Ques. on W#60	Ques. On W#61	Ques. On W#62
5	Find the prime factorization of a number in exponential form.			12
6	Determine the GCF or LCM of two or three numbers. Solve word problems with GCF and LCM.	6, 7	9	10
8, 10, 14	Identify if a number is a counting/natural number, a whole number, an integer, a rational or irrational number. Explain the difference between the sets of numbers.	1	5, 7	1, 8
7, 9	Write the square root of perfect squares up to 225. Estimate the square root of a non-perfect square to the nearest whole number.		2	13
11, 12, 13, 15, 18	Add, subtract, multiply and divide integers various ways and in word problems.	8-10	1	2, 14, 15
16, 17	Simplify expressions using order of operations (with absolute value, square root, exponents, positive and negative numbers)		4, 8	3
19, 20	Write numbers in scientific notation. Translate numbers from scientific notation into standard form. Compare/order numbers written in scientific notation. Solve a word problem with adding or subtracting numbers given in different forms - scientific notation/standard form.	4, 5, 11	19, 20	5, 7, 9
21	Use the laws of exponents to simplify expressions.	2, 3	3, 6	4, 11

22	Use the Pythagorean Theorem to find a missing side in a right triangle. Use the Pythagorean Theorem to prove a triangle is a right triangle.		12	16, 18
23, 24	Find the radius or diameter given the area of a circle. Find the radius or diameter given the circumference of a circle.			6
25	Identify 3-dimensional figures and their characteristics. (edges, vertices, bases, lateral faces, total faces)			
26-30	Find the surface area of prisms and cylinders.		10, 11	
31	Find the volume of prisms and cylinders.			20
32	Evaluate formulas (density, distance, simple interest, volume, surface area). Know which formula to use and when.	14		
33	Find missing angles in quadrilaterals and triangles.			17
34	Estimating answers to various word problems.	13		19

Other important papers to review and redo to help prepare for the test:

- W#20 Review Packet #1
- W#21 Quarter 1 Test Review
- W#53 Geometry Review 1
- W#54 Geometry Review 2
- W#60 Dec. 21 Review
- W#61 Quarter 2 Test Review
- W#62 Midterm Review
- All tests and quizzes