

Thinkwell's Homeschool Math Series Placement Guide

Welcome! Thank you for your interest in Thinkwell. We know the curriculum selection process for your homeschool student can be challenging. We here at Thinkwell want to help you make this decision as straightforward and painless as possible. This Guide and the Placement Tests were created to provide you with a tool to place your student in the appropriate level of math.

Thinkwell offers 7 courses in the Homeschool Math series.

Thinkwell's Homeschool 6th Grade Math

Thinkwell's Homeschool 7th Grade Math

Thinkwell's Homeschool 8th Grade Math

Thinkwell's Homeschool Intermediate Algebra (Algebra 1)

Thinkwell's Homeschool Geometry coming soon!

Thinkwell's Homeschool College Algebra (Algebra 2)

Thinkwell's Homeschool Precalculus

Thinkwell's Homeschool Calculus

Typical Sequence of Secondary Math Courses

A typical sequence of secondary math courses completed by a college-bound student is listed below for your use in determining the most appropriate Thinkwell Homeschool course to take. Most college-bound students will take seven or eight years of math between 6th and 12th grades, beginning with 6th Grade Math and ending with Precalculus or Calculus.

6th Grade Math

7th Grade Math

8th Grade Math

Algebra 1

Geometry

Algebra 2

Precalculus

Calculus

Guide to the Placement Tests

If you are not sure which Thinkwell Homeschool math course is best for your student, completing one or more of the Placement Tests will give you a better idea. Each Placement Test contains 10 questions. There is no time limit for the Placement Tests, but generally a test should take about an hour. Your student should take the test independently.

After completing a Placement Test, you can use the **Guidelines for Interpreting Placement Test Scores** below to determine which course is recommended by Thinkwell. The Placement Test score and corresponding course recommendation should not be the only determining factor when deciding the appropriate course for your student. Your student's grade level and experience in previously completed math courses should also be considered. Please feel free to contact a Thinkwell representative at support@thinkwell.com or 1.800.684.0058 if you have any questions regarding appropriate placement.

Guidelines for Interpreting Placement Test Scores

Placement Test	Number of Correct Answers	Recommendation
Placement Test 1	5 or more	Thinkwell's 6th Grade Math
Placement Test 2	6 or less	Thinkwell's 6th Grade Math
	7 or more	Thinkwell's 7th Grade Math
Placement Test 3	4 or less	<i>complete Placement Test 2</i>
	5 or 6	Thinkwell's 7th Grade Math
	7 or more	Thinkwell's 8th Grade Math
Placement Test 4	4 or less	<i>complete Placement Test 3</i>
	5 or 6	Thinkwell's 8th Grade Math
	7 or more	Thinkwell's Intermediate Algebra (Algebra 1)
Placement Test 5	4 or less	<i>complete Placement Test 4</i>
	5 or 6	Thinkwell's Intermediate Algebra (Algebra 1)
	7 or more	Thinkwell's College Algebra (Algebra 2)
Placement Test 6	4 or less	<i>complete Placement Test 5</i>
	5 or 6	Thinkwell's College Algebra (Algebra 2)
	7 or more	Thinkwell's Precalculus
Placement Test 7	4 or less	<i>complete Placement Test 6</i>
	5 or 6	Thinkwell's Precalculus
	7 or more	Thinkwell's Calculus

Thinkwell's Placement Test 4

Thinkwell's Placement Test 4 is a 10-question test. Complete each question independently and show all work. The test is not timed, but you should finish in less than 1 hour. Use the answer key to score your test after you finish all of the test questions. A recommendation can be made regarding your readiness for Thinkwell's Homeschool Algebra 1 based on your score on this test.

1. Evaluate $a^x - (b \cdot c) \div d$ for
 $a = 2$, $b = 10$, $c = 5$, $d = 2$, and $x = 3$.

2. Solve. $10 = \frac{y - 9}{4}$

3. Use the table to make a graph and to write an equation.

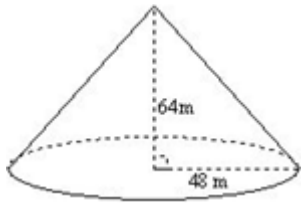
x	0	1	2	3	4
y	0	5	10	15	20

4. Simplify. $\sqrt{8} + \sqrt{72}$

5. If an airplane in a 1 in : 4 ft scale drawing is 7.5 inches long, how long is the actual airplane?

6. Determine whether $f(x) = -3x + 5$ is linear. If so, give the slope and y -intercept.

7. Find the cone's volume in *cubic feet*. Use 3.14 for π and round the answer to the nearest tenth.



(1 m \approx 3.2808 ft)

8. Li-ming owns an ice cream shop. On Saturday, 67 people entered her shop. On Monday, 49 people entered her shop. What was the percent decrease in customers from Saturday to Tuesday? If necessary, round your answer to the nearest hundredth of a percent.

9. Find the x -intercept and y -intercept of the line $-x + y = 2$. Use the intercepts to graph the equation.

10. Multiply. $12ab(a^2 + 20ab - 4)$