

TabletClass Math Homeschool Geometry Placement Guide/Test



The purpose of this guide and test is to help you determine if Geometry is the right level and course for your child at this time in their education.

Placement Considerations:

1. **Previous course finished:** completion of Algebra 1 at a minimum is required
2. **Previous course grade:** grade C or better
3. **Age:** flexible, but 15–16 is the age group of most students that take the course
Motivation/goals: This is important to consider for students that may or may not be ready for Geometry—a student will need to work hard to pass this course. Also, motivation and desire to learn math is a critical factor to assess, especially for younger students.
4. **Placement Test Results: Over 75%** on the placement test **is desirable**. However, if a student scores **between 65% and 75%**, the course **may still be a good choice for them**. But, if your child scores **below 50%** on the placement test, they **may not be ready for the course, or they will need to review previous math skills before starting the course**.

FINAL FACTOR: Ultimately, you the parent should use your best judgement to determine if Geometry is the right course for your child. Don't be afraid to make a decision; if your child starts the course, you will likely know in the first month if your placement was a good choice or you need to change course level. If you decide that your child is not ready for Geometry at this time, you may want to consider our [Algebra 1 Course](#) as a review.

Directions for Placement Test:

1. Give your child a day or two to review previous math concepts—this review is optional and should be informal without the parent's assistance.
2. Calculator is allowed.
3. No math notes or other reference materials.
4. No smart phones or access to the internet.
5. Time limit 30 min.
6. Encourage your child to finish all questions to the best of their ability.
7. Once the test is complete- compute the raw score and percentage.

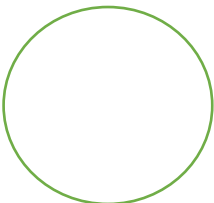
Placement Test Starts Next Page – Answer Key & Score Sheet Is on the Last Page
— *Make Sure Not To Give Your Child The Key Accidentally*

TabletClass Math Geometry Placement Test
20 Questions | 30 minutes

1. Write as a power $(y + 1)(y + 1)(y + 1)$
2. Evaluate $-14 - 3(7 - 2) - 2 \times 5^2 =$
3. Evaluate $-3w^2 + 2g - w$ if $w = -2$ and $g = 3$
4. What is the slope of the line $2x + 3y = 12$
5. Solve the equation $4(y - 8) + y = 2(y + 3) + 10$
6. Evaluate $2|-8| =$
7. Multiply the binomials $(2x + 3)(4x + 5)$
8. Factor the trinomial $x^2 + 10x + 16$
9. Simplify the expression $(2a^2b^3)^2 =$
10. Add $-3\frac{1}{2} + 2\frac{1}{3} =$
11. Simplify $(x^2 - 9) \div (x + 3) =$
12. What is the LCD of these fractions? $\frac{3}{20}$ and $\frac{7}{12}$
13. Solve for x $\frac{2x}{20} = \frac{7}{14}$
14. Which is the x-coordinate of the point (4, 9)?
15. 8 is 20% of what number?
16. Solve for x: $4x^2 - x = 0$
17. Solve the system below:

$$\begin{aligned}2x + y &= 8 \\4x + y &= 4\end{aligned}$$

18. Evaluate $2\sqrt{36} \times 3\sqrt{64} =$
19. 4 is to 10 as 2 is to what number?
20. Given the *Area of a Circle* $= \pi r^2$ what is the radius of the circle below:



Area=14 cm squared



TabletClass Math Geometry Placement Test
Answer Key | Raw Score

1. $(y + 1)^3$
2. -79
3. 0
4. Slope = $-\frac{2}{3}$
5. Solution $y = 16$
6. 16
7. $8x^2 + 22x + 15$
8. $(x + 2)(x + 8)$
9. $4a^4b^6$
10. $-\frac{7}{6}$
11. $(x - 3)$
12. LCD=60
13. $x = 5$
14. 4
15. 40
16. $x = 0, x = \frac{1}{4}$
17. $x = -2, y = 12$
18. 288
19. 5
20. $r \approx 2.11 \text{ cm}$

Raw Score % = [(number of correct answers) / 20] x 100

Raw Score % = _____