

# TabletClass Math Homeschool

## Algebra 1 Placement Guide/Test



The purpose of this guide and test is to help you determine if Algebra 1 is the right level and course for your child at this time in their education.

### Placement Considerations:

1. **Previous course finished:** completion of Pre-Algebra at a minimum is required
2. **Previous course grade:** grade C or better
3. **Age:** flexible, but 14–15 is the age group of most students that take the course
4. **Motivation/goals:** This is important to consider for students that may or may not be ready for Algebra 1—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.
5. **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 Algebra 1 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 Algebra 1 at this time, you may want to consider our [Pre-Algebra Course](#) as a review.

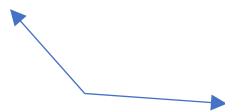
### Directions for Placement Test:

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.

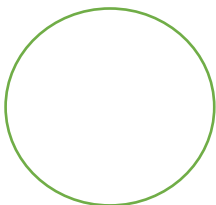
**Placement Test Starts Next Page – Answer Key & Score Sheet Is on the Last Page**  
— *Make Sure Not To Give Your Child The Key Accidentally*

TabletClass Math Algebra 1 Placement Test  
20 Questions | 30 minutes

1. What is  $3^5$  equal to?
2. Evaluate  $-14 - 3(7 - 2) - 2 \times 5^2 =$
3. Evaluate  $-3w^2 + 2g - w$  if  $w = -2$  and  $g = 3$
4. Is  $x=3$  the solution to the equation  $4(x + 1) = 5x + 3$ ?
5. Solve the equation  $4y - 8 = y + 15$
6. Evaluate  $2|-8| =$
7. What is the slope of the linear equation  $y = 4x + 5$ ?
8. Find the sum if possible  $2m + -7m =$
9. Simplify using the Distributive Property  $8(2a - 3) =$
10. Multiply  $-3\frac{1}{2} \times 2\frac{1}{3} =$
11. Divide  $-14 \div -2 =$
12. What is the LCD of these fractions?  $\frac{3}{20}$  and  $\frac{7}{12}$
13. Add  $\frac{2}{15} + \frac{7}{25} =$
14. Which is the x-coordinate of the point (4, 9)?
15. 8 is 20% of what number?
16. Write  $x^5 * x^2$  as one power
17. Estimate the measure of the angle below:



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



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**TabletClass Math Algebra 1 Placement Test**  
**Answer Key | Raw Score**

1. 243
2. - 79
3. - 4
4. No solution
5. Solution  $y = 23/3$
6. 16
7. Slope = 4
8. - 5m
9.  $16a - 24$
10. - 49/6
11. 7
12. LCD=60
13. 31/75
14. 4
15. 40
16.  $x^7$
17. Any angle between 120 and 150 degrees
18. 288
19. 5
20.  $r \approx 2.11 \text{ cm}$

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

Raw Score % = \_\_\_\_\_