

How to use the Prerequisite Check

If you are not sure whether you already have the ability to start to learn the Daily Challenge Module 1 (Algebra Basics), take this check to find out if you are ready!

NOTE: This is only an entry-level test to make sure the student is well-prepared to start to learn the Daily Challenge Module 1. The difficulty level of Module 1 is going to be much higher than the problems included in this test.

You have **no time limits** to work on the 9 questions.

- If you find it's a bit hard for you, don't worry — you can come back to take our class in a few months after you build up the foundation!
- If you can solve **at least 80%** of the questions, there's no doubt that you can start to work on our [Module 1 LIVE \(2022 March Weekend Pace\)](#).
- If you find the test too easy for you, you can move on to the [Placement Tests](#) to understand the comprehensive difficulty level of the Daily Challenge modules.

Let's get started!

Prerequisite Check of Module 1 (Algebra Basics)

1. Which of these numbers is the largest?

- A. $2/5$
- B. 0.45
- C. $1/3$
- D. $11/30$
- E. 0.7×0.7

2. A class has 16 girls and 24 boys. What is the ratio of boys to girls, as a fraction in simplest form?

- A. $16/24$
- B. $2/3$
- C. $3/2$
- D. $24/16$
- E. $3/5$

3. If a 40-inch-tall person grows by 25%, how tall is the person after growing?

- A. 50 inches tall
- B. 40.25 inches tall
- C. 65 inches tall
- D. 10 inches tall
- E. 44 inches tall

4. If a car drives at a speed of 35 miles per hour for 12 minutes, how many miles did it go?

- A.** 420 miles
- B.** 35 miles
- C.** $35/12$ miles
- D.** 17.5 miles
- E.** 7 miles

5. Find the value of 0.125×888 .

- A.** 444
- B.** 109.40
- C.** 111
- D.** 11.1
- E.** 111000

6. Find the simplified form of $13/117$.

- A.** $1/9$
- B.** $1/19$
- C.** $1/17$
- D.** $13/117$
- E.** $1/13$



7. How many x 's are there in $\frac{1}{2}x + \frac{1}{2}x + \frac{1}{2}x$?

- A. 3
- B. 2
- C. 1.5
- D. 1

8. The reciprocal of a non-zero variable x is equal to ?

- A. $x/10$
- B. $1/x$
- C. $x - 1$
- D. $-x$

9. $\sqrt{5} + \sqrt{5} = ?$

- A. $2\sqrt{5}$
- B. 5
- C. $\sqrt{10}$
- D. $\frac{2}{5}$

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Prerequisite Check Answers

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- E. ~~0.7~~ × 0.7

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- E. $3/5$

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