

Well-Trained Mind Academy
Diagnostic Test
Physics for the Logic Stage

Instructions

This placement test can help you determine whether your student has the prerequisite math knowledge for success in Physics for the Logic Stage.

The student should work independently without the use of a calculator. If special accommodations are required, the instructor should be notified. It is not necessary to time the test.

Please write neatly. Illegible answers will be assumed to be incorrect.

The student is most likely ready for PFLS if he/she scores a minimum of 70% on this placement test.

If the student's score falls below this level, it is advisable to contact the Dean at info@wtmacademy.com before registering for PFLS.

Test

Multiply or divide.

$$\begin{array}{r} (1) \quad 8,120 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} (2) \quad 112.1 \\ \times 2.5 \\ \hline \end{array}$$

$$(3) \quad 68,730 \div 5 = ?$$

$$(4) \quad 44.45 \div 3.5 = ?$$

$$(5) \text{ Reduce to lowest term } \frac{369}{1203} = ?$$

$$(6) \quad 9.687 + 1.943 + 0.76 + 24.2 = ?$$

$$(7) \quad 3.5 \text{ meters} = \underline{\hspace{2cm}} \text{ centimeters.}$$

$$(8) \text{ What is the mean of 34, 42, 17, 67 and 30?}$$

$$(9) \text{ Round 47.948 to the nearest whole number.}$$

$$(10) \quad 20,000 + 3,400,000 = ?$$

Write your answer to this question in scientific notation.

Answer Key

- (1) 138,040
- (2) 280.25
- (3) 13,746
- (4) 12.7
- (5) 123/401
- (6) 36.59
- (7) 350 cm
- (8) 38
- (9) 48
- (10) 3.42×10^6