

# Useful Links for the Paper-based Math Placement Test

The paper based Math Placement Test check students' knowledge in the following areas:

- ◆ Order of Operations
- ◆ Fractions and Operations with Fractions
- ◆ Percentage
- ◆ Rate and Ratio
- ◆ Operations with Algebraic Expressions
- ◆ Solution of simple Equations

Website links in Explanations group have very good and easy explanations of the topics tested in the placement test. The website links in Video Tutorials of "Khan Academy" for the same topics, but if you find difficulties understanding the materials in the websites of Explanations, then you can use the websites of the Video Tutorials.

## Explanations

- ◇ Order of Operations
  - <https://www.mathsisfun.com/operation-order-pemdas.html>
- ◇ Fractions and Operations with Fractions
  - <https://www.mathsisfun.com/fractions.html>
  - <https://www.mathsisfun.com/fractions-menu.html>
- ◇ Percentage (percentage of a number; conversion of percents to decimals and vice versa; conversion of percents to fractions and vice versa)
  - <https://www.mathsisfun.com/percentage.html>
  - <https://www.mathsisfun.com/percentage-menu.html>
- ◇ Rates, Ratios and Proportions
  - <https://www.mathsisfun.com/numbers/ratio.html>
  - <https://www.mathsisfun.com/algebra/proportions.html>
  - <http://www.differencebetween.com/difference-between-rate-and-vs-ratio/>
- ◇ Operations with Algebraic Expressions
  - <https://www.mathplanet.com/education/pre-algebra/introducing-algebra/evaluate-expressions>
  - <https://www.mathsisfun.com/algebra/polynomials-multiplying.html>
  - <https://www.mathsisfun.com/algebra/polynomials-adding-subtracting.html>
- ◇ Solution of simple Equations
  - <https://www.mathsisfun.com/algebra/equation-formula.html>
  - <https://www.mathsisfun.com/algebra/equations-solving.html>

# Video Tutorials

## ✧ Order of Operations

- <https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-order-of-operations/v/introduction-to-order-of-operations>

## ✧ Fractions and Operations with Fractions

- <https://www.khanacademy.org/math/arithmetic/fraction-arithmetic>

## ✧ Percentage

- <https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-percent-problems/v/finding-percentages-example>
- <https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-percent-word-problems/v/solving-percent-problems-2>

## ✧ Rates, Ratios and Proportions

- <https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates>

## ✧ Operations with Algebraic Expressions

- <https://www.khanacademy.org/math/algebra-basics/alg-basics-algebraic-expressions/alg-basics-intro-to-variables/v/variables-and-expressions-1>
- <https://www.khanacademy.org/math/algebra-basics/alg-basics-algebraic-expressions/alg-basics-substitution/v/evaluating-expressions-in-two-variables>
- <https://www.khanacademy.org/math/algebra-basics/alg-basics-algebraic-expressions/alg-basics-combining-like-terms/v/combining-like-terms>
- <https://www.khanacademy.org/math/algebra-basics/alg-basics-algebraic-expressions/alg-basics-distributive-property/v/distributive-property-with-variables-exercise>
- <https://www.khanacademy.org/math/algebra/introduction-to-polynomial-expressions/adding-and-subtracting-polynomials/v/adding-and-subtracting-polynomials-1>
- <https://www.khanacademy.org/math/algebra/introduction-to-polynomial-expressions/multiplying-binomials-2/v/multiplying-simple-binomials>

## ✧ Solution of simple Equations

- <https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-intro-equations/a/introduction-to-equations>
- <https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-one-step-add-sub-equations/v/adding-and-subtracting-the-same-thing-from-both-sides>
- <https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-one-step-mult-div-equations/v/simple-equations>