

Westchester Community College

Elementary Algebra Study Guide for the ACCUPLACER

Courtesy of
Aims Community College

The following sample questions are similar to the format and content of questions on the Accuplacer Elementary Algebra test. Reviewing these samples will give you a good idea of how the test works and just what mathematical topics you may wish to review before taking the test itself. Our purposes in providing you with this information are to aid your memory and to help you do your best.

I. Order of operations

1. $3^2 + 5 - \sqrt{4} + 4^0$

3. $3 \cdot 7^2$

5. $49 + 7 - 2 \cdot 2$

7. $3 + 2(5) - |-7|$

9. $\frac{4^2 - 5^2}{(4 - 5)^2}$

2. $(5 + 1)(4 - 2) - 3$

4. $2(7 + 3)^2$

6. $9 + 3 \cdot 5 - 8 + 2 + 27$

8. $\frac{5 \cdot 5 - 4(4)}{2^2 - 1}$

10. -5^2

II. Scientific Notation

Write the following in Scientific Notation.

1. 350,000,000

2. 0.000000000000000523

3. 120,500,000,000,000,000,000

Write in expanded form.

4. 6.02×10^{23}

5. 3.0×10^8

6. 1.819×10^{-9}

Simplify. Write answers in scientific notation.

7. $(3 \times 10^3)(5 \times 10^6)$

8. $(3 \times 10^{-4})^2$

9. $\frac{6 \times 10^9}{3 \times 10^{-4}}$

10. $\frac{(3.2 \times 10^5)(2 \times 10^{-3})}{2 \times 10^{-2}}$

III. Substitution

Find each value if $x = 3$, $y = -4$, and $z = 2$.

1. $xyz - 4z$

2. $2x - y$

3. $x(y - 3z)$

4. $\frac{5x - z}{xy}$

5. $3y^2 - 2x + 4z$

IV. Linear equations in one variable

Solve the following for x .

1. $6x - 48 = 6$

2. $\frac{2}{3}x - 5 = x - 3$

3. $50 - x - (3x + 2) = 0$

4. $8 - 4(x - 1) = 2 + 3(4 - x)$

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Brendan G. Carr



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