

Unit Zero Study Guide

Part I: Adding and Subtracting Integers

1.) $-5 + 4 =$

2.) $-6 - 10 =$

3.) $5 - 9 =$

4.) $-5 + (-7) =$

5.) $7 - (-10) =$

6.) $-5 - (-12) =$

7.) $-3 + 7 =$

8.) $-4 + (-5) - (-10) =$

9.) $3 - 7 - (-3) =$

Part II: Multiplying and Dividing Integers

1.) $-2 \cdot (-3)$

2.) $-2 \cdot 5 =$

3.) $6 \cdot (-5) =$

4.) $\frac{18}{3} =$

5.) $-63 \div 7 =$

6.) $-9 \cdot (-9) =$

7.) $-5 \cdot (-7) =$

8.) $\frac{-25}{-5} =$

9.) $-\frac{6}{6} =$

Part III: Operations of Integers

1.) $-5 + 7(-3) - 4 =$

2.) $-7 + 12 \div (-2) \cdot 5 =$

3.) $20 \div 5 + 7(-2) - 10 =$

4.) $-5 \cdot -10 \div 5 + (-2) =$

Part IV: PEMDAS

1.) $27 \div 9 \cdot 2 - (-3)$

2.) $3(4-1) - 5(6+3)$

3.) $27 \div 9 \cdot 2 - (-3)$

4.) $\frac{(1-2)^3 + (2)^3}{12 \div 3 \cdot 2 - 3}$

5.) $12 - [3 - (4 + 3^2) \cdot 2]$

6.) $-4(3)(-1)(-2)^2$

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7.) $11 - 5 + (3 - 2^2)$

8.) $3^4 \div 27 - (42 - 45)^2$

9.) $[3 - (6 - 7)^2] + 5$

Part V: Translating Algebraic Expressions

Rewrite:

1.) The sum of three and a number is five.

2.) The product of a number and six.

3.) The difference of a number and seven.

4.) The quotient of a number and ten.

Simplify:

5.) What is twelve less than seven?

6.) What is the product of five and ten?

7.) What is the quotient of ten and five?

8.) What is the difference of two and ten?

Part VI: Combing Like Terms and the Distributive Property

9.) $-3(x + 2) - 5$

10.) $3x + 2x - 4(x + 7)$

11.) $5(x + 3) - 2(x - 5) + 7$

12.) $-4(x - 5) - (-3 + 5)$