

Pre-Algebra MATH Brush-Up Session

If you placed into MATH 70 or a higher-level course, this might be useful for you

Integers

**Simplify.**

1.  $-34 + (-7)$

2.  $10 + (-9) + (-8) + 7$

3.  $-67 - 13$

4.  $-2 - (-10)$

5.  $-8 - 12$

6.  $72 \div (-4)$

7.  $(-8)(-12)$

8.  $35 \div (-5)$

9.  $-7 - 12$

10.  $-7 - 12$

11. Evaluate  $24 \div t^3$  if  $t = -2$

12. Evaluate  $-80 \div 2 a^2$  for  $a = 2$

**Simplify.**

13.  $(120 - 6^2$

14.  $120 - 6^2 \div 1-$

15.  $36 \div (-2)^2 + 4 [5 - 3(8 - 9)^5]$

16. \_\_\_\_\_

**Simplify by combining like terms.**

17.  $11a + 2b + (-4a) + (-3b)$

18.  $2a + 5a - (6a + 8)$

19.  $3x^2 + 11 (2x^2 + 5)$

**Answer Key:**

1. -41

2. 0

3. -80

4. 8

5. —

6. -288

7. 974 ~~117~~