

## MATH 100 Basic Skills Assessment

**Perform the following calculations without using a calculator.**

1.  $5(82) + 5(18)$

2.  $\frac{2}{3}(16) + \frac{2}{3}(8)$

3.  $5 + 2 \cdot (-3) - 6 \div (2 + 1)$

4.  $8 - (-2)$

5.  $-8 - (-2)$

6.  $-2 - (-8)$

7.  $6 \div \frac{1}{2}$

8.  $\frac{1}{2} \div 6$

9.  $(-3)^4$

10.  $\frac{6 + 3 \cdot 5}{3}$

**Multiply.**

11.  $-6(3x - 4y)$

12.  $3x^2(2x^3)$

**Simplify.**

13.  $6a + 10 + 3a - 8$

14.  $2(3x + 5) - 3(x + 2)$

15.  $\frac{5 + 10z}{5}$

16.  $\frac{4y^6}{y^2}$