

MATH 100 Basic Skills Assessment

Perform the following calculations without using a calculator.

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

500

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

16

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

-3

4. $8 - (-2)$

10

5. $-8 - (-2)$

-6

6. $-2 - (-8)$

6

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

12

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

$\frac{1}{12}$

9. $(-3)^4$

81

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

7

Multiply.

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

$-18x + 24y$

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

$6x^5$

Simplify.

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

$9a + 2$

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

$3x + 4$

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

$1 + 2z$

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

$4y^4$