

Math 0020 January 18, 2017 Homework 3

Perform the operations then simplify.

1. $\frac{3}{8} \cdot (4)^2$

2. $\frac{1}{12} \cdot (6)^2$

3. $\frac{2}{3} \cdot (9)^2$

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

5. $(9 - 4)^2 + 14$

6. $\frac{3^2 - 2^2}{(5 - 3)^2}$

7. $\frac{8 + 7}{8^2 - 2^2}$

8. $10 - 2[7 + (3 - 9)] + 6^2$

9. $12 - 4[10 + (9 - 13)] + 3^2$

10. $64 \div 16 \div 4$

11. $3 - 16 \div 4 \cdot 2 - 15 + 25 - 4^2$

12. $125 \div 25 \div 5$

13. $\frac{13-8}{25} \cdot (43 - 12 - (-4))$

14. $\left(\frac{-2}{5}\right)^2 \cdot \left(\frac{10}{3}\right)^2$

15. $2^3 - 3^2$

16. $(-4)^3 + (-3)^4 - 3^2$

17. $7 - [5 - 2(6 - 8)] + (-24)$

18. $(2.33)(5.67)(1.009)(1.323)(4.578)(1.3)$

19. $\frac{(2.43)(9.11)(13.22)}{(2.345)(6.789)(1.0332)}$

20. $\left(\frac{13.12}{9.03}\right)^4$

21. $1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 + 8 - 7 + 6 - 5 + 4 - 3 + 2 - 1$