

Exponents and Roots

Write on your own sheet of paper. You will not turn this worksheet in.

Simplify. Write in decimal form.

1. 10^{-3}

2. 10^3

3. 10^{-5}

4. 10^{-2}

5. 10^0

6. 10^4

7. 10^1

8. 10^5

Simplify.

9. $(-6)^{-2}$

10. $(-9)^{-3}$

11. 2^{-5}

12. $(-3)^{-4}$

13. $(-12)^{-1}$

14. 6^{-3}

15. $10 - (3 + 2)^0 + 2^{-1}$

16. $15 + (-6)^0 - 3^{-2}$

17. $6(8 - 2)^0 + 4^{-2}$

18. $2^{-2} + (-4)^{-1}$

19. $3(1 - 4)^{-2} + 9^{-1} + 12^0$

20. $9^0 + 64(3 + 5)^{-2}$

21. One milliliter equals 10^{-3} liter. Simplify 10^{-3} .

22. The volume of a cube is 10^6 cubic feet. Simplify 10^6 .
