

6.EE.1: Worksheet

1. Evaluate the expression $9 + 10 \times 2^2$.
2. Evaluate the expression $2^3 \times (5^3 - 100)$.
3. Write the expression $61 \times 61 \times 61 \times 61$ using exponents.
4. Write the expression 9^5 without using exponents and then evaluate it.
5. Of the expressions 3^2 and 2^3 , which is larger?
6. Your grandpa gives you a choice between eating 50 cookies now or eating one cookie today, two cookies tomorrow, four cookies the day after, and so on, for a week. Write an expression for the second option. Which option is better if you want to eat the most cookies possible?
7. Evaluate the expression $\frac{5^2 \times (4^3 - 54)}{50}$.
8. A colony of flesh-eating bacteria starts with 50 cells and triples every hour. How many bacterial cells will there be after 12 hours?
9. Evaluate the expression $\frac{8^2 + 5}{3}$.
10. Evaluate the expression $\frac{6^5 - (5^5 + 207)}{7^3 - 11^2} + \frac{7^3 - (12^2 + 50 \times 3)}{7}$.