## 6.EE.1: Worksheet

1. Evaluate the expression  $9 + 10 \times 2^2$ .

- 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?
- 2. Evaluate the expression  $2^3 \times (5^3 100)$ .
- 7. Evaluate the expression  $\frac{5^2 \times (4^3 54)}{50}$ .
- 3. Write the expression  $61 \times 61 \times 61 \times 61$  using exponents.
- 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?
- 4. Write the expression  $9^5$  without using exponents and then evaluate it.
- 9. Evaluate the expression  $\frac{8^2+5}{3}$ .
- 5. Of the expressions  $3^2$  and  $2^3$ , which is larger?
- 10. Evaluate the expression  $\frac{6^5 (5^5 + 207)}{7^3 11^2} + \frac{7^3 (12^2 + 50 \times 3)}{7}$ .

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