

Multiple Choice

- ___ 1. Write the base of $-(-5)^3$.
a. -5 b. 5 c. -5×3 d. 3
- ___ 2. Evaluate: -4^4
a. -256 b. -16 c. 16 d. 256
- ___ 3. Evaluate: $(-5)^7$
a. -35 b. 35 c. $78\,125$ d. $-78\,125$
- ___ 4. Evaluate: -8^0
a. 8 b. 0 c. 1 d. -1
- ___ 5. Evaluate: $(-13)^0$
a. 0 b. 1 c. -13 d. -1
- ___ 6. Evaluate: $-(10^0)^9$
a. -9 b. 1 c. -1 d. 9
- ___ 7. Write $(5 \times 10^4) + (8 \times 10^1) + (9 \times 10^2) + (6 \times 10^0)$ in standard form.
a. $50\,980$ b. $50\,986$ c. $50\,981$ d. 5986
- ___ 8. Evaluate: $4 - 6^2$
a. -8 b. 16 c. -32 d. 32
- ___ 9. Evaluate: $2^3 - (-3)^3$
a. 15 b. -19 c. -3 d. 35
- ___ 10. Evaluate: $(3 + 4)^2 - (2 - 4)^3$
a. -31 b. 57 c. 20 d. 41
- ___ 11. Write the product of $5^3 \times 5^4$ as a single power.
a. 5^7 b. 5^{12} c. 10^7 d. 25^7
- ___ 12. Write the product of $(-7)^7 \times (-7)^3$ as a single power.
a. $(-7)^{10}$ b. $(-14)^{10}$ c. 49^{10} d. $(-7)^{21}$
- ___ 13. Express $7^9 \times 7^3 + 7^6$ as a single power.
a. 7^2 b. 7^6 c. 7^{18} d. 7^{21}
- ___ 14. Express $\frac{(-5)^9 \times (-5)^6}{(-5)^3}$ as a single power.
a. $(-5)^5$ b. $(-5)^{51}$ c. $(-5)^{12}$ d. $(-5)^{18}$
- ___ 15. Write $-(7^2)^3$ as a power.
a. 7^5 b. -7^5 c. -7^6 d. 7^6
- ___ 16. Evaluate: $\left[(-5)^0\right]^3$
a. -3 b. -1 c. 3 d. 1
- ___ 17. Simplify, then evaluate.
 $(2^4 \times 2^2)^2$
a. 1024 b. $65\,536$ c. 4096 d. 256

Short Answer

18. Write these powers in order from least to greatest.

$$2^5, 4^3, 3^4, 5^2$$

19. Evaluate: 7^0