

Grade 9 Math Test
Unit 2: Powers and Exponents

November

Name: _____

Part 1 Multiple Choice

Place the letter of the correct response in the space provided on the right.

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|----|--|----|-------|
| 1. | What is the base in 5^2 ? | 1. | _____ |
| | a) 2 b) 5 c) 25 d) 10 | | |
| 2. | Write $(-3)(-3)(-3)(-3)$ as a power. | 2. | _____ |
| | a) -3^4 b) 4^{-3} c) $(-3)^4$ d) 81 | | |
| 3. | What is the value of two cubed? | 3. | _____ |
| | a) 6 b) 16 c) 9 d) 8 | | |
| 4. | Evaluate: -4^2 | 4. | _____ |
| | a) -16 b) -8 c) 16 d) 8 | | |
| 5. | Write 10^5 in standard form. | 5. | _____ |
| | a) $10 \times 10 \times 10 \times 10 \times 10$ b) 100000 c) 50 d) 105 | | |
| 6. | Evaluate: $-2^0 + (-3)^0 + 5^0$ | 6. | _____ |
| | a) 1 b) 3 c) -1 d) 0 | | |
| 7. | Write as a single power: $8^7 \times 8^4$ | 7. | _____ |
| | a) 8^{11} b) 8^{28} c) 8^3 d) 64^{11} | | |
| 8. | Write as a single power: $(13^8)^5$ | 8. | _____ |
| | a) 13^3 b) 13^{40} c) 13^{85} d) 13^{13} | | |
| 9. | Write as a single power: $(-5)^{20} \div (-5)^6$ | 9. | _____ |
| | a) $(-5)^{120}$ b) $(-5)^{26}$ c) $(1)^{14}$ d) $(-5)^{14}$ | | |