Cotuz

Name: _____ Date: _____

Exponents and Expressions with a Variable

Grade 6 · Ages 11-12 · Math · Expressions & Equations · ★☆

Write each answer on the line. A power is a number multiplied by itself: $5^3 = 5 \times 5 \times 5 = 125$, so $4 \times 4 \times 4$ is written 4^3. In 5^3, the base is 5 and the exponent is 3. Any number to the power 0 is 1.

1. Write $6 \times 6 \times 6$ as a power. _____

2. What is the value of 2^2? _____

3. Write $10 \times 10 \times 10$ as a power. _____

4. What is the value of 4^2? _____

5. Write 8×8 as a power. _____

6. What is the value of 10^3? _____

7. Write 2×2 as a power. _____

8. What is the value of 10^2? _____

9. Write 3×3 as a power. _____

10. What is the value of 4^3? _____

11. In 7^2, which number is the exponent? _____

12. What is the value of 10^0? _____

13. What is the value of 7^3? _____

14. In 6^2, which number is the exponent? _____

15. What is the value of 5^0? _____

16. In 7^3, which number is the base? _____

17. What is the value of 3^2? _____

18. In 9^2, which number is the exponent? _____

19. In 8^2, which number is the exponent? _____

20. What is the value of 2^0? _____

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ANSWER KEY

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1. Write $6 \times 6 \times 6$ as a power. **6^3**

2. What is the value of 2^2? **4**

3. Write $10 \times 10 \times 10$ as a power. **10^3**

4. What is the value of 4^2? **16**

5. Write 8×8 as a power. **8^2**

6. What is the value of 10^3? **1,000**

7. Write 2×2 as a power. **2^2**

8. What is the value of 10^2? **100**

9. Write 3×3 as a power. **3^2**

10. What is the value of 4^3? **64**

11. In 7^2, which number is the exponent? **2**

12. What is the value of 10^0? **1**

13. What is the value of 7^3? **343**

14. In 6^2, which number is the exponent? **2**

15. What is the value of 5^0? **1**

16. In 7^3, which number is the base? **7**

17. What is the value of 3^2? **9**

18. In 9^2, which number is the exponent? **2**

19. In 8^2, which number is the exponent? **2**

20. What is the value of 2^0? **1**