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

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

3. Write $4 \times 4 \times 4$ as a power. _____

4. What is the value of 9^3? _____

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

6. Write 9×9 as a power. _____

7. What is the value of 5^2? _____

8. Write 10×10 as a power. _____

9. Write 7×7 as a power. _____

10. What is the value of 6^2? _____

11. In 2^3, which number is the exponent? _____

12. What is the value of 7^2? _____

13. In 2^2, which number is the base? _____

14. What is the value of 8^0? _____

15. What is the value of 3^3? _____

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

17. What is the value of 9^2? _____

18. In 6^3, which number is the exponent? _____

19. In 3^2, which number is the exponent? _____

20. What is the value of 8^3? _____

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ANSWER KEY

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

2. What is the value of 8^2? **64**

3. Write $4 \times 4 \times 4$ as a power. **4^3**

4. What is the value of 9^3? **729**

5. What is the value of 6^3? **216**

6. Write 9×9 as a power. **9^2**

7. What is the value of 5^2? **25**

8. Write 10×10 as a power. **10^2**

9. Write 7×7 as a power. **7^2**

10. What is the value of 6^2? **36**

11. In 2^3, which number is the exponent? **3**

12. What is the value of 7^2? **49**

13. In 2^2, which number is the base? **2**

14. What is the value of 8^0? **1**

15. What is the value of 3^3? **27**

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

17. What is the value of 9^2? **81**

18. In 6^3, which number is the exponent? **3**

19. In 3^2, which number is the exponent? **2**

20. What is the value of 8^3? **512**