



Rewriting Using the Laws of Exponents

Name: _____

Use the law of exponents to rewrite each problem.

1) $3^0 =$ _____

2) $3^3 \times 3^{-5} =$ _____

3) $(\frac{1}{7})^3 =$ _____

4) $(7 \times 2)^2 =$ _____

5) $(8 \times 3)^9 =$ _____

6) $(\frac{1}{4})^8 =$ _____

7) $8^0 =$ _____

8) $7^8 \times 7^5 =$ _____

9) $5^3 \times 5^2 =$ _____

10) $4^{-8} =$ _____

11) $7^1 =$ _____

12) $(8 \times 6)^9 =$ _____

13) $4^8 \times 4^{-7} =$ _____

14) $4^4 \times 4^3 =$ _____

15) $(8^4)^3 =$ _____

16) $6^3 \times 6^{-9} =$ _____

17) $3^0 =$ _____

18) $6^1 =$ _____

19) $8^{-5} =$ _____

20) $(5^3)^5 =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

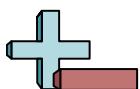
16. _____

17. _____

18. _____

19. _____

20. _____



Rewriting Using the Laws of Exponents

Name: **Answer Key**

Use the law of exponents to rewrite each problem.

1) $3^0 = \underline{\hspace{1cm}1}$

2) $3^3 \times 3^{-5} = \underline{\hspace{1cm}3^{-2}}$

3) $(\frac{1}{7})^3 = \underline{\hspace{1cm}\frac{1}{7^3}}$

4) $(7 \times 2)^2 = \underline{\hspace{1cm}7^2 \times 2^2}$

5) $(8 \times 3)^9 = \underline{\hspace{1cm}8^9 \times 3^9}$

6) $(\frac{1}{4})^8 = \underline{\hspace{1cm}\frac{1}{4^8}}$

7) $8^0 = \underline{\hspace{1cm}1}$

8) $7^8 \times 7^5 = \underline{\hspace{1cm}7^{13}}$

9) $5^3 \times 5^2 = \underline{\hspace{1cm}5^5}$

10) $4^{-8} = \underline{\hspace{1cm}\frac{1}{4^8}}$

11) $7^1 = \underline{\hspace{1cm}7}$

12) $(8 \times 6)^9 = \underline{\hspace{1cm}8^9 \times 6^9}$

13) $4^8 \times 4^{-7} = \underline{\hspace{1cm}4^1}$

14) $4^4 \times 4^3 = \underline{\hspace{1cm}4^7}$

15) $(8^4)^3 = \underline{\hspace{1cm}8^{12}}$

16) $6^3 \times 6^{-9} = \underline{\hspace{1cm}6^{-6}}$

17) $3^0 = \underline{\hspace{1cm}1}$

18) $6^1 = \underline{\hspace{1cm}6}$

19) $8^{-5} = \underline{\hspace{1cm}\frac{1}{8^5}}$

20) $(5^3)^5 = \underline{\hspace{1cm}5^{15}}$

Answers1. **1****3⁻²** **$\frac{1}{7^3}$** **$7^2 \times 2^2$** **$8^9 \times 3^9$** **$\frac{1}{4^8}$** **1****7¹³****5⁵** **$\frac{1}{4^8}$** **7** **$8^9 \times 6^9$** **4¹****4⁷****8¹²****6⁶****1****6** **$\frac{1}{8^5}$** **5¹⁵**