



Use the law of exponents to rewrite each problem.

**Answers**

1)  $3^0 =$  \_\_\_\_\_

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

1. \_\_\_\_\_

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

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

2. \_\_\_\_\_

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

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

3. \_\_\_\_\_

7)  $8^0 =$  \_\_\_\_\_

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

4. \_\_\_\_\_

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

10)  $4^{-8} =$  \_\_\_\_\_

5. \_\_\_\_\_

11)  $7^1 =$  \_\_\_\_\_

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

6. \_\_\_\_\_

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

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

7. \_\_\_\_\_

15)  $(8^4)^3 =$  \_\_\_\_\_

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

8. \_\_\_\_\_

17)  $3^0 =$  \_\_\_\_\_

18)  $6^1 =$  \_\_\_\_\_

9. \_\_\_\_\_

19)  $8^{-5} =$  \_\_\_\_\_

20)  $(5^3)^5 =$  \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

\_\_\_\_\_



Use the law of exponents to rewrite each problem.

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

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

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

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

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

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

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

8)  $7^8 \times 7^5 = \underline{7^{8+5}}$

9)  $5^3 \times 5^2 = \underline{5^{3+2}}$

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

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

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

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

14)  $4^4 \times 4^3 = \underline{4^{4+3}}$

15)  $(8^4)^3 = \underline{8^{4 \times 3}}$

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

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

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

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

20)  $(5^3)^5 = \underline{5^{3 \times 5}}$

Answers

1. 1

2.  $3^{3-5}$

3.  $\frac{1}{7^3}$

4.  $7^2 \times 2^2$

5.  $8^9 \times 3^9$

6.  $\frac{1}{4^8}$

7. 1

8.  $7^{8+5}$

9.  $5^{3+2}$

10.  $\frac{1}{4^8}$

11. 7

12.  $8^9 \times 6^9$

13.  $4^{8-7}$

14.  $4^{4+3}$

15.  $8^{4 \times 3}$

16.  $6^{3-9}$

17. 1

18. 6

19.  $\frac{1}{8^5}$

20.  $5^{3 \times 5}$