



Use the law of exponents to rewrite each problem.

Answers

1)  $5^1 =$  \_\_\_\_\_

2)  $(7 \times 3)^7 =$  \_\_\_\_\_

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

3)  $(6 \times 7)^5 =$  \_\_\_\_\_

4)  $(3^5)^7 =$  \_\_\_\_\_

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

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

6)  $5^3 \times 5^7 =$  \_\_\_\_\_

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

7)  $(9 \times 8)^7 =$  \_\_\_\_\_

8)  $9^0 =$  \_\_\_\_\_

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

9)  $2^{-2} =$  \_\_\_\_\_

10)  $(\frac{1}{2})^5 =$  \_\_\_\_\_

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

11)  $8^0 =$  \_\_\_\_\_

12)  $9^{-7} =$  \_\_\_\_\_

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

13)  $2^1 =$  \_\_\_\_\_

14)  $3^7 \times 3^{-7} =$  \_\_\_\_\_

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

15)  $(\frac{1}{5})^6 =$  \_\_\_\_\_

16)  $7^1 =$  \_\_\_\_\_

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

17)  $9^6 \times 9^{-4} =$  \_\_\_\_\_

18)  $2^6 \times 2^{-8} =$  \_\_\_\_\_

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

19)  $5^{-9} =$  \_\_\_\_\_

20)  $(3^4)^5 =$  \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

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



Use the law of exponents to rewrite each problem.

1)  $5^1 = \underline{5}$

2)  $(7 \times 3)^7 = \underline{7^7 \times 3^7}$

3)  $(6 \times 7)^5 = \underline{6^5 \times 7^5}$

4)  $(3^5)^7 = \underline{3^{35}}$

5)  $2^2 \times 2^2 = \underline{2^4}$

6)  $5^3 \times 5^7 = \underline{5^{10}}$

7)  $(9 \times 8)^7 = \underline{9^7 \times 8^7}$

8)  $9^0 = \underline{1}$

9)  $2^{-2} = \underline{\frac{1}{2^2}}$

10)  $(\frac{1}{2})^5 = \underline{\frac{1}{2^5}}$

11)  $8^0 = \underline{1}$

12)  $9^{-7} = \underline{\frac{1}{9^7}}$

13)  $2^1 = \underline{2}$

14)  $3^7 \times 3^{-7} = \underline{3^0}$

15)  $(\frac{1}{5})^6 = \underline{\frac{1}{5^6}}$

16)  $7^1 = \underline{7}$

17)  $9^6 \times 9^{-4} = \underline{9^2}$

18)  $2^6 \times 2^{-8} = \underline{2^{-2}}$

19)  $5^{-9} = \underline{\frac{1}{5^9}}$

20)  $(3^4)^5 = \underline{3^{20}}$

Answers

1. 5

2.  $7^7 \times 3^7$

3.  $6^5 \times 7^5$

4.  $3^{35}$

5.  $2^4$

6.  $5^{10}$

7.  $9^7 \times 8^7$

8. 1

9.  $\frac{1}{2^2}$

10.  $\frac{1}{2^5}$

11. 1

12.  $\frac{1}{9^7}$

13. 2

14.  $3^0$

15.  $\frac{1}{5^6}$

16. 7

17.  $9^2$

18.  $2^{-2}$

19.  $\frac{1}{5^9}$

20.  $3^{20}$