



Use the law of exponents to rewrite each problem.

**Answers**

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

2)  $(6^7)^6 =$  \_\_\_\_\_

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

3)  $8^0 =$  \_\_\_\_\_

4)  $(4 \times 5)^5 =$  \_\_\_\_\_

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

5)  $(6^6)^6 =$  \_\_\_\_\_

6)  $(2 \times 9)^3 =$  \_\_\_\_\_

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

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

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

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

9)  $6^{-2} =$  \_\_\_\_\_

10)  $4^8 \times 4^7 =$  \_\_\_\_\_

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

11)  $(\frac{1}{7})^4 =$  \_\_\_\_\_

12)  $6^4 \times 6^{-9} =$  \_\_\_\_\_

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

13)  $(6 \times 9)^6 =$  \_\_\_\_\_

14)  $4^6 \times 4^8 =$  \_\_\_\_\_

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

15)  $4^{-8} =$  \_\_\_\_\_

16)  $3^4 \times 3^{-4} =$  \_\_\_\_\_

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

17)  $(\frac{1}{2})^8 =$  \_\_\_\_\_

18)  $4^1 =$  \_\_\_\_\_

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

19)  $4^0 =$  \_\_\_\_\_

20)  $3^7 \times 3^4 =$  \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

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



Use the law of exponents to rewrite each problem.

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

2)  $(6^7)^6 = \underline{6^{42}}$

3)  $8^0 = \underline{1}$

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

5)  $(6^6)^6 = \underline{6^{36}}$

6)  $(2 \times 9)^3 = \underline{2^3 \times 9^3}$

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

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

9)  $6^{-2} = \underline{\frac{1}{6^2}}$

10)  $4^8 \times 4^7 = \underline{4^{15}}$

11)  $(\frac{1}{7})^4 = \underline{\frac{1}{7^4}}$

12)  $6^4 \times 6^{-9} = \underline{6^{-5}}$

13)  $(6 \times 9)^6 = \underline{6^6 \times 9^6}$

14)  $4^6 \times 4^8 = \underline{4^{14}}$

15)  $4^{-8} = \underline{\frac{1}{4^8}}$

16)  $3^4 \times 3^{-4} = \underline{3^0}$

17)  $(\frac{1}{2})^8 = \underline{\frac{1}{2^8}}$

18)  $4^1 = \underline{4}$

19)  $4^0 = \underline{1}$

20)  $3^7 \times 3^4 = \underline{3^{11}}$

Answers

1.  $\underline{7}$

2.  $\underline{6^{42}}$

3.  $\underline{1}$

4.  $\underline{4^5 \times 5^5}$

5.  $\underline{6^{36}}$

6.  $\underline{2^3 \times 9^3}$

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

8.  $\underline{8^2}$

9.  $\underline{\frac{1}{6^2}}$

10.  $\underline{4^{15}}$

11.  $\underline{\frac{1}{7^4}}$

12.  $\underline{6^{-5}}$

13.  $\underline{6^6 \times 9^6}$

14.  $\underline{4^{14}}$

15.  $\underline{\frac{1}{4^8}}$

16.  $\underline{3^0}$

17.  $\underline{\frac{1}{2^8}}$

18.  $\underline{4}$

19.  $\underline{1}$

20.  $\underline{3^{11}}$