



Use the law of exponents to rewrite each problem.

**Answers**

1)  $7^5 \times 7^{-6} =$  \_\_\_\_\_

2)  $6^0 =$  \_\_\_\_\_

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

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

4)  $(9^5)^5 =$  \_\_\_\_\_

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

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

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

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

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

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

7)  $5^9 \times 5^{-6} =$  \_\_\_\_\_

8)  $7^{-8} =$  \_\_\_\_\_

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

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

9)  $(5 \times 3)^7 =$  \_\_\_\_\_

10)  $2^{-8} =$  \_\_\_\_\_

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

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

11)  $5^0 =$  \_\_\_\_\_

12)  $(8 \times 9)^2 =$  \_\_\_\_\_

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

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

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

14)  $(4^2)^7 =$  \_\_\_\_\_

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

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

15)  $2^5 \times 2^3 =$  \_\_\_\_\_

16)  $6^8 \times 6^{-4} =$  \_\_\_\_\_

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

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

17)  $(\frac{1}{6})^3 =$  \_\_\_\_\_

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

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

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

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

20)  $(\frac{1}{2})^6 =$  \_\_\_\_\_

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

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

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



Use the law of exponents to rewrite each problem.

1)  $7^5 \times 7^{-6} = 7^{-1}$

2)  $6^0 = 1$

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

4)  $(9^5)^5 = 9^{25}$

5)  $6^7 \times 6^6 = 6^{13}$

6)  $(3 \times 6)^3 = 3^3 \times 6^3$

7)  $5^9 \times 5^{-6} = 5^3$

8)  $7^{-8} = \frac{1}{7^8}$

9)  $(5 \times 3)^7 = 5^7 \times 3^7$

10)  $2^{-8} = \frac{1}{2^8}$

11)  $5^0 = 1$

12)  $(8 \times 9)^2 = 8^2 \times 9^2$

13)  $6^9 \times 6^6 = 6^{15}$

14)  $(4^2)^7 = 4^{14}$

15)  $2^5 \times 2^3 = 2^8$

16)  $6^8 \times 6^{-4} = 6^4$

17)  $(\frac{1}{6})^3 = \frac{1}{6^3}$

18)  $6^1 = 6$

19)  $4^0 = 1$

20)  $(\frac{1}{2})^6 = \frac{1}{2^6}$

Answers

1.  $7^{-1}$

2.  $1$

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

4.  $9^{25}$

5.  $6^{13}$

6.  $3^3 \times 6^3$

7.  $5^3$

8.  $\frac{1}{7^8}$

9.  $5^7 \times 3^7$

10.  $\frac{1}{2^8}$

11.  $1$

12.  $8^2 \times 9^2$

13.  $6^{15}$

14.  $4^{14}$

15.  $2^8$

16.  $6^4$

17.  $\frac{1}{6^3}$

18.  $6$

19.  $1$

20.  $\frac{1}{2^6}$