



Use the law of exponents to rewrite each problem.

**Answers**

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

2)  $6^1 =$  \_\_\_\_\_

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

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

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

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

5)  $(8^8)^4 =$  \_\_\_\_\_

6)  $2^3 \times 2^{-2} =$  \_\_\_\_\_

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

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

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

8)  $9^{-4} =$  \_\_\_\_\_

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

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

9)  $(9^4)^2 =$  \_\_\_\_\_

10)  $6^{-6} =$  \_\_\_\_\_

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

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

11)  $3^8 \times 3^5 =$  \_\_\_\_\_

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

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

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

13)  $(\frac{1}{3})^8 =$  \_\_\_\_\_

14)  $(6 \times 3)^9 =$  \_\_\_\_\_

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

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

15)  $8^0 =$  \_\_\_\_\_

16)  $2^1 =$  \_\_\_\_\_

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

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

17)  $(8^4)^4 =$  \_\_\_\_\_

18)  $4^6 \times 4^{-8} =$  \_\_\_\_\_

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

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

19)  $6^0 =$  \_\_\_\_\_

20)  $8^5 \times 8^8 =$  \_\_\_\_\_

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

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

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

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



Use the law of exponents to rewrite each problem.

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

2)  $6^1 = \underline{6}$

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

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

5)  $(8^8)^4 = \underline{8^{32}}$

6)  $2^3 \times 2^{-2} = \underline{2^1}$

7)  $2^7 \times 2^3 = \underline{2^{10}}$

8)  $9^{-4} = \underline{\frac{1}{9^4}}$

9)  $(9^4)^2 = \underline{9^8}$

10)  $6^{-6} = \underline{\frac{1}{6^6}}$

11)  $3^8 \times 3^5 = \underline{3^{13}}$

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

13)  $(\frac{1}{3})^8 = \underline{\frac{1}{3^8}}$

14)  $(6 \times 3)^9 = \underline{6^9 \times 3^9}$

15)  $8^0 = \underline{1}$

16)  $2^1 = \underline{2}$

17)  $(8^4)^4 = \underline{8^{16}}$

18)  $4^6 \times 4^{-8} = \underline{4^{-2}}$

19)  $6^0 = \underline{1}$

20)  $8^5 \times 8^8 = \underline{8^{13}}$

Answers

1. 3

2. 6

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

4. 1

5.  $8^{32}$

6.  $2^1$

7.  $2^{10}$

8.  $\frac{1}{9^4}$

9.  $9^8$

10.  $\frac{1}{6^6}$

11.  $3^{13}$

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

13.  $\frac{1}{3^8}$

14.  $6^9 \times 3^9$

15. 1

16. 2

17.  $8^{16}$

18.  $4^{-2}$

19. 1

20.  $8^{13}$