



Use the law of exponents to rewrite each problem.

Answers

1)  $(7^4)^2 =$  \_\_\_\_\_

2)  $8^3 \times 8^{-4} =$  \_\_\_\_\_

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

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

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

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

5)  $8^2 \times 8^7 =$  \_\_\_\_\_

6)  $(4 \times 6)^9 =$  \_\_\_\_\_

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

7)  $(\frac{1}{9})^9 =$  \_\_\_\_\_

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

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

9)  $(8^5)^7 =$  \_\_\_\_\_

10)  $8^0 =$  \_\_\_\_\_

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

11)  $(9 \times 6)^2 =$  \_\_\_\_\_

12)  $8^0 =$  \_\_\_\_\_

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

13)  $4^5 \times 4^{-3} =$  \_\_\_\_\_

14)  $7^8 \times 7^4 =$  \_\_\_\_\_

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

15)  $(5 \times 4)^6 =$  \_\_\_\_\_

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

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

17)  $6^1 =$  \_\_\_\_\_

18)  $7^1 =$  \_\_\_\_\_

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

19)  $8^8 \times 8^9 =$  \_\_\_\_\_

20)  $2^4 \times 2^{-7} =$  \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

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



Use the law of exponents to rewrite each problem.

1)  $(7^4)^2 = 7^{4 \times 2}$

2)  $8^3 \times 8^{-4} = 8^{3-4}$

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

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

5)  $8^2 \times 8^7 = 8^{2+7}$

6)  $(4 \times 6)^9 = 4^9 \times 6^9$

7)  $(\frac{1}{9})^9 = \frac{1}{9^9}$

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

9)  $(8^5)^7 = 8^{5 \times 7}$

10)  $8^0 = 1$

11)  $(9 \times 6)^2 = 9^2 \times 6^2$

12)  $8^0 = 1$

13)  $4^5 \times 4^{-3} = 4^{5-3}$

14)  $7^8 \times 7^4 = 7^{8+4}$

15)  $(5 \times 4)^6 = 5^6 \times 4^6$

16)  $2^1 = 2$

17)  $6^1 = 6$

18)  $7^1 = 7$

19)  $8^8 \times 8^9 = 8^{8+9}$

20)  $2^4 \times 2^{-7} = 2^{4-7}$

Answers

1.  $7^{4 \times 2}$

2.  $8^{3-4}$

3.  $9^{5 \times 9}$

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

5.  $8^{2+7}$

6.  $4^9 \times 6^9$

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

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

9.  $8^{5 \times 7}$

10.  $1$

11.  $9^2 \times 6^2$

12.  $1$

13.  $4^{5-3}$

14.  $7^{8+4}$

15.  $5^6 \times 4^6$

16.  $2$

17.  $6$

18.  $7$

19.  $8^{8+9}$

20.  $2^{4-7}$