



Use the law of exponents to rewrite each problem.

Answers

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

2)  $9^0 =$  \_\_\_\_\_

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

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

4)  $(7^8)^4 =$  \_\_\_\_\_

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

5)  $2^4 \times 2^9 =$  \_\_\_\_\_

6)  $8^1 =$  \_\_\_\_\_

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

7)  $9^4 \times 9^{-5} =$  \_\_\_\_\_

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

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

9)  $(7 \times 9)^2 =$  \_\_\_\_\_

10)  $5^1 =$  \_\_\_\_\_

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

11)  $9^0 =$  \_\_\_\_\_

12)  $7^0 =$  \_\_\_\_\_

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

13)  $(4 \times 5)^9 =$  \_\_\_\_\_

14)  $(\frac{1}{4})^9 =$  \_\_\_\_\_

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

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

16)  $(4^3)^8 =$  \_\_\_\_\_

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

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

18)  $8^1 =$  \_\_\_\_\_

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

19)  $3^3 \times 3^{-2} =$  \_\_\_\_\_

20)  $5^4 \times 5^7 =$  \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

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



Use the law of exponents to rewrite each problem.

1)  $(2^7)^2 = 2^{14}$

2)  $9^0 = 1$

3)  $3^4 \times 3^{-5} = 3^{-1}$

4)  $(7^8)^4 = 7^{32}$

5)  $2^4 \times 2^9 = 2^{13}$

6)  $8^1 = 8$

7)  $9^4 \times 9^{-5} = 9^{-1}$

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

9)  $(7 \times 9)^2 = 7^2 \times 9^2$

10)  $5^1 = 5$

11)  $9^0 = 1$

12)  $7^0 = 1$

13)  $(4 \times 5)^9 = 4^9 \times 5^9$

14)  $(\frac{1}{4})^9 = \frac{1}{4^9}$

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

16)  $(4^3)^8 = 4^{24}$

17)  $4^{-6} = \frac{1}{4^6}$

18)  $8^1 = 8$

19)  $3^3 \times 3^{-2} = 3^1$

20)  $5^4 \times 5^7 = 5^{11}$

Answers

1.  $2^{14}$

2.  $1$

3.  $3^{-1}$

4.  $7^{32}$

5.  $2^{13}$

6.  $8$

7.  $9^{-1}$

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

9.  $7^2 \times 9^2$

10.  $5$

11.  $1$

12.  $1$

13.  $4^9 \times 5^9$

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

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

16.  $4^{24}$

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

18.  $8$

19.  $3^1$

20.  $5^{11}$