



Use the law of exponents to rewrite each problem.

Answers

1)  $(\frac{1}{5})^4 =$  \_\_\_\_\_

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

3)  $(2^8)^6 =$  \_\_\_\_\_

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

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

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

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

8)  $(\frac{1}{2})^3 =$  \_\_\_\_\_

9)  $9^1 =$  \_\_\_\_\_

10)  $(5 \times 4)^7 =$  \_\_\_\_\_

11)  $4^5 \times 4^{-8} =$  \_\_\_\_\_

12)  $2^0 =$  \_\_\_\_\_

13)  $4^0 =$  \_\_\_\_\_

14)  $(8 \times 2)^8 =$  \_\_\_\_\_

15)  $(5^6)^8 =$  \_\_\_\_\_

16)  $5^0 =$  \_\_\_\_\_

17)  $2^7 \times 2^{-2} =$  \_\_\_\_\_

18)  $3^9 \times 3^2 =$  \_\_\_\_\_

19)  $9^{-5} =$  \_\_\_\_\_

20)  $4^1 =$  \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



Use the law of exponents to rewrite each problem.

1)  $(\frac{1}{5})^4 = \frac{1}{5^4}$

2)  $4^1 = 4$

3)  $(2^8)^6 = 2^{48}$

4)  $4^4 \times 4^{-4} = 4^0$

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

6)  $9^6 \times 9^2 = 9^8$

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

8)  $(\frac{1}{2})^3 = \frac{1}{2^3}$

9)  $9^1 = 9$

10)  $(5 \times 4)^7 = 5^7 \times 4^7$

11)  $4^5 \times 4^{-8} = 4^{-3}$

12)  $2^0 = 1$

13)  $4^0 = 1$

14)  $(8 \times 2)^8 = 8^8 \times 2^8$

15)  $(5^6)^8 = 5^{48}$

16)  $5^0 = 1$

17)  $2^7 \times 2^{-2} = 2^5$

18)  $3^9 \times 3^2 = 3^{11}$

19)  $9^{-5} = \frac{1}{9^5}$

20)  $4^1 = 4$

**Answers**

1.  $\frac{1}{5^4}$

2.  $4$

3.  $2^{48}$

4.  $4^0$

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

6.  $9^8$

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

8.  $\frac{1}{2^3}$

9.  $9$

10.  $5^7 \times 4^7$

11.  $4^{-3}$

12.  $1$

13.  $1$

14.  $8^8 \times 2^8$

15.  $5^{48}$

16.  $1$

17.  $2^5$

18.  $3^{11}$

19.  $\frac{1}{9^5}$

20.  $4$