



Use the law of exponents to rewrite each problem.

**Answers**

1)  $(8 \times 6)^3 =$  \_\_\_\_\_

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

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

3)  $(\frac{1}{5})^8 =$  \_\_\_\_\_

4)  $5^1 =$  \_\_\_\_\_

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

5)  $3^1 =$  \_\_\_\_\_

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

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

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

7)  $2^0 =$  \_\_\_\_\_

8)  $(6^6)^7 =$  \_\_\_\_\_

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

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

9)  $(7 \times 6)^6 =$  \_\_\_\_\_

10)  $8^8 \times 8^4 =$  \_\_\_\_\_

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

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

11)  $2^0 =$  \_\_\_\_\_

12)  $(\frac{1}{5})^9 =$  \_\_\_\_\_

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

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

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

14)  $9^{-9} =$  \_\_\_\_\_

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

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

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

16)  $7^7 \times 7^{-8} =$  \_\_\_\_\_

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

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

17)  $4^{-2} =$  \_\_\_\_\_

18)  $(3 \times 7)^8 =$  \_\_\_\_\_

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

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

19)  $6^1 =$  \_\_\_\_\_

20)  $2^0 =$  \_\_\_\_\_

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

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

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

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



Use the law of exponents to rewrite each problem.

1)  $(8 \times 6)^3 = 8^3 \times 6^3$

2)  $(6^3)^6 = 6^{18}$

3)  $(\frac{1}{5})^8 = \frac{1}{5^8}$

4)  $5^1 = 5$

5)  $3^1 = 3$

6)  $4^9 \times 4^9 = 4^{18}$

7)  $2^0 = 1$

8)  $(6^6)^7 = 6^{42}$

9)  $(7 \times 6)^6 = 7^6 \times 6^6$

10)  $8^8 \times 8^4 = 8^{12}$

11)  $2^0 = 1$

12)  $(\frac{1}{5})^9 = \frac{1}{5^9}$

13)  $3^5 \times 3^{-3} = 3^2$

14)  $9^{-9} = \frac{1}{9^9}$

15)  $(8^8)^8 = 8^{64}$

16)  $7^7 \times 7^{-8} = 7^{-1}$

17)  $4^{-2} = \frac{1}{4^2}$

18)  $(3 \times 7)^8 = 3^8 \times 7^8$

19)  $6^1 = 6$

20)  $2^0 = 1$

Answers

1.  $8^3 \times 6^3$

2.  $6^{18}$

3.  $\frac{1}{5^8}$

4.  $5$

5.  $3$

6.  $4^{18}$

7.  $1$

8.  $6^{42}$

9.  $7^6 \times 6^6$

10.  $8^{12}$

11.  $1$

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

13.  $3^2$

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

15.  $8^{64}$

16.  $7^{-1}$

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

18.  $3^8 \times 7^8$

19.  $6$

20.  $1$