



Use the law of exponents to rewrite each problem.

Answers

1) $5^5 \times 5^6 =$ _____

2) $4^8 \times 4^8 =$ _____

3) $(3^7)^8 =$ _____

4) $3^0 =$ _____

5) $5^6 \times 5^{-6} =$ _____

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

7) $2^0 =$ _____

8) $(4^6)^5 =$ _____

9) $9^{-6} =$ _____

10) $6^5 \times 6^2 =$ _____

11) $5^{-5} =$ _____

12) $(2^6)^2 =$ _____

13) $(8 \times 5)^3 =$ _____

14) $7^8 \times 7^{-7} =$ _____

15) $(\frac{1}{5})^6 =$ _____

16) $5^0 =$ _____

17) $(7 \times 2)^4 =$ _____

18) $6^1 =$ _____

19) $(\frac{1}{6})^8 =$ _____

20) $(\frac{1}{8})^9 =$ _____

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) $5^5 \times 5^6 = 5^{5+6}$

2) $4^8 \times 4^8 = 4^{8+8}$

3) $(3^7)^8 = 3^{7 \times 8}$

4) $3^0 = 1$

5) $5^6 \times 5^{-6} = 5^{6-6}$

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

7) $2^0 = 1$

8) $(4^6)^5 = 4^{6 \times 5}$

9) $9^{-6} = \frac{1}{9^6}$

10) $6^5 \times 6^2 = 6^{5+2}$

11) $5^{-5} = \frac{1}{5^5}$

12) $(2^6)^2 = 2^{6 \times 2}$

13) $(8 \times 5)^3 = 8^3 \times 5^3$

14) $7^8 \times 7^{-7} = 7^{8-7}$

15) $(\frac{1}{5})^6 = \frac{1}{5^6}$

16) $5^0 = 1$

17) $(7 \times 2)^4 = 7^4 \times 2^4$

18) $6^1 = 6$

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

20) $(\frac{1}{8})^9 = \frac{1}{8^9}$

Answers

1. 5^{5+6}

2. 4^{8+8}

3. $3^{7 \times 8}$

4. 1

5. 5^{6-6}

6. 4^{6-8}

7. 1

8. $4^{6 \times 5}$

9. $\frac{1}{9^6}$

10. 6^{5+2}

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

12. $2^{6 \times 2}$

13. $8^3 \times 5^3$

14. 7^{8-7}

15. $\frac{1}{5^6}$

16. 1

17. $7^4 \times 2^4$

18. 6

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

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