



Use the law of exponents to rewrite each problem.

Answers

1) $(8 \times 4)^9 =$ _____

2) $(7^3)^7 =$ _____

1. _____

3) $7^2 \times 7^{-6} =$ _____

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

2. _____

3. _____

5) $9^0 =$ _____

6) $8^0 =$ _____

4. _____

5. _____

7) $5^{-5} =$ _____

8) $(2^7)^3 =$ _____

6. _____

7. _____

9) $5^0 =$ _____

10) $(\frac{1}{7})^5 =$ _____

8. _____

9. _____

11) $(6 \times 8)^8 =$ _____

12) $4^{-6} =$ _____

10. _____

11. _____

13) $5^5 \times 5^2 =$ _____

14) $8^5 \times 8^7 =$ _____

12. _____

13. _____

15) $9^1 =$ _____

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

14. _____

15. _____

17) $8^2 \times 8^6 =$ _____

18) $3^{-8} =$ _____

16. _____

17. _____

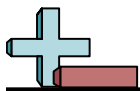
19) $(7^3)^3 =$ _____

20) $5^1 =$ _____

18. _____

19. _____

20. _____



Use the law of exponents to rewrite each problem.

1) $(8 \times 4)^9 = 8^9 \times 4^9$

2) $(7^3)^7 = 7^{3 \times 7}$

3) $7^2 \times 7^{-6} = 7^{2-6}$

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

5) $9^0 = 1$

6) $8^0 = 1$

7) $5^{-5} = \frac{1}{5^5}$

8) $(2^7)^3 = 2^{7 \times 3}$

9) $5^0 = 1$

10) $(\frac{1}{7})^5 = \frac{1}{7^5}$

11) $(6 \times 8)^8 = 6^8 \times 8^8$

12) $4^{-6} = \frac{1}{4^6}$

13) $5^5 \times 5^2 = 5^{5+2}$

14) $8^5 \times 8^7 = 8^{5+7}$

15) $9^1 = 9$

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

17) $8^2 \times 8^6 = 8^{2+6}$

18) $3^{-8} = \frac{1}{3^8}$

19) $(7^3)^3 = 7^{3 \times 3}$

20) $5^1 = 5$

Answers

1. $8^9 \times 4^9$

2. $7^{3 \times 7}$

3. 7^{2-6}

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

5. 1

6. 1

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

8. $2^{7 \times 3}$

9. 1

10. $\frac{1}{7^5}$

11. $6^8 \times 8^8$

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

13. 5^{5+2}

14. 8^{5+7}

15. 9

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

17. 8^{2+6}

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

19. $7^{3 \times 3}$

20. 5