



Use the law of exponents to rewrite each problem.

Answers

1) $3^1 =$ _____

2) $6^1 =$ _____

1. _____

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

4) $4^0 =$ _____

2. _____

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

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

3. _____

7) $2^7 \times 2^3 =$ _____

8) $9^{-4} =$ _____

4. _____

9) $(9^4)^2 =$ _____

10) $6^{-6} =$ _____

5. _____

11) $3^8 \times 3^5 =$ _____

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

6. _____

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

14) $(6 \times 3)^9 =$ _____

7. _____

15) $8^0 =$ _____

16) $2^1 =$ _____

8. _____

17) $(8^4)^4 =$ _____

18) $4^6 \times 4^{-8} =$ _____

9. _____

19) $6^0 =$ _____

20) $8^5 \times 8^8 =$ _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Use the law of exponents to rewrite each problem.

1) $3^1 = \underline{3}$

2) $6^1 = \underline{6}$

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

4) $4^0 = \underline{1}$

5) $(8^8)^4 = \underline{8^{32}}$

6) $2^3 \times 2^{-2} = \underline{2^1}$

7) $2^7 \times 2^3 = \underline{2^{10}}$

8) $9^{-4} = \underline{\frac{1}{9^4}}$

9) $(9^4)^2 = \underline{9^8}$

10) $6^{-6} = \underline{\frac{1}{6^6}}$

11) $3^8 \times 3^5 = \underline{3^{13}}$

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

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

14) $(6 \times 3)^9 = \underline{6^9 \times 3^9}$

15) $8^0 = \underline{1}$

16) $2^1 = \underline{2}$

17) $(8^4)^4 = \underline{8^{16}}$

18) $4^6 \times 4^{-8} = \underline{4^{-2}}$

19) $6^0 = \underline{1}$

20) $8^5 \times 8^8 = \underline{8^{13}}$

Answers

1. $\underline{3}$

2. $\underline{6}$

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

4. $\underline{1}$

5. $\underline{8^{32}}$

6. $\underline{2^1}$

7. $\underline{2^{10}}$

8. $\underline{\frac{1}{9^4}}$

9. $\underline{9^8}$

10. $\underline{\frac{1}{6^6}}$

11. $\underline{3^{13}}$

12. $\underline{\frac{1}{8^6}}$

13. $\underline{\frac{1}{3^8}}$

14. $\underline{6^9 \times 3^9}$

15. $\underline{1}$

16. $\underline{2}$

17. $\underline{8^{16}}$

18. $\underline{4^{-2}}$

19. $\underline{1}$

20. $\underline{8^{13}}$