



Use the law of exponents to rewrite each problem.

Answers

1) $3^{-4} =$ _____

2) $8^3 \times 8^9 =$ _____

1. _____

3) $(\frac{1}{3})^7 =$ _____

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

2. _____

5) $9^0 =$ _____

6) $6^1 =$ _____

3. _____

4. _____

7) $7^0 =$ _____

8) $6^3 \times 6^2 =$ _____

5. _____

6. _____

9) $(9 \times 4)^7 =$ _____

10) $(\frac{1}{8})^7 =$ _____

7. _____

8. _____

11) $3^{-2} =$ _____

12) $(8^6)^5 =$ _____

9. _____

10. _____

13) $2^1 =$ _____

14) $(\frac{1}{2})^5 =$ _____

11. _____

12. _____

15) $(3 \times 4)^3 =$ _____

16) $9^{-3} =$ _____

13. _____

14. _____

17) $(5 \times 6)^2 =$ _____

18) $2^0 =$ _____

15. _____

16. _____

19) $4^4 \times 4^{-9} =$ _____

20) $3^3 \times 3^{-3} =$ _____

17. _____

18. _____

19. _____

20. _____



Use the law of exponents to rewrite each problem.

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

2) $8^3 \times 8^9 = \underline{8^{3+9}}$

3) $(\frac{1}{3})^7 = \underline{\frac{1}{3^7}}$

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

5) $9^0 = \underline{1}$

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

7) $7^0 = \underline{1}$

8) $6^3 \times 6^2 = \underline{6^{3+2}}$

9) $(9 \times 4)^7 = \underline{9^7 \times 4^7}$

10) $(\frac{1}{8})^7 = \underline{\frac{1}{8^7}}$

11) $3^{-2} = \underline{\frac{1}{3^2}}$

12) $(8^6)^5 = \underline{8^{6 \times 5}}$

13) $2^1 = \underline{2}$

14) $(\frac{1}{2})^5 = \underline{\frac{1}{2^5}}$

15) $(3 \times 4)^3 = \underline{3^3 \times 4^3}$

16) $9^{-3} = \underline{\frac{1}{9^3}}$

17) $(5 \times 6)^2 = \underline{5^2 \times 6^2}$

18) $2^0 = \underline{1}$

19) $4^4 \times 4^{-9} = \underline{4^{4-9}}$

20) $3^3 \times 3^{-3} = \underline{3^{3-3}}$

Answers

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

2. $\underline{8^{3+9}}$

3. $\underline{\frac{1}{3^7}}$

4. $\underline{8^{8+8}}$

5. $\underline{1}$

6. $\underline{6}$

7. $\underline{1}$

8. $\underline{6^{3+2}}$

9. $\underline{9^7 \times 4^7}$

10. $\underline{\frac{1}{8^7}}$

11. $\underline{\frac{1}{3^2}}$

12. $\underline{8^{6 \times 5}}$

13. $\underline{2}$

14. $\underline{\frac{1}{2^5}}$

15. $\underline{3^3 \times 4^3}$

16. $\underline{\frac{1}{9^3}}$

17. $\underline{5^2 \times 6^2}$

18. $\underline{1}$

19. $\underline{4^{4-9}}$

20. $\underline{3^{3-3}}$