



Use the law of exponents to rewrite each problem.

Answers

1) $6^6 \times 6^9 =$ _____

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

1. _____

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

4) $8^0 =$ _____

2. _____

5) $(4^9)^8 =$ _____

6) $6^{-2} =$ _____

3. _____

7) $5^0 =$ _____

8) $(9 \times 2)^6 =$ _____

4. _____

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

10) $(\frac{1}{6})^9 =$ _____

5. _____

11) $(2 \times 3)^2 =$ _____

12) $3^{-8} =$ _____

6. _____

13) $4^3 \times 4^4 =$ _____

14) $6^1 =$ _____

7. _____

15) $6^0 =$ _____

16) $6^1 =$ _____

8. _____

17) $8^1 =$ _____

18) $3^5 \times 3^{-9} =$ _____

9. _____

19) $2^7 \times 2^{-5} =$ _____

20) $3^3 \times 3^6 =$ _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Use the law of exponents to rewrite each problem.

1) $6^6 \times 6^9 = \underline{6^{6+9}}$

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

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

4) $8^0 = \underline{1}$

5) $(4^9)^8 = \underline{4^{9 \times 8}}$

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

7) $5^0 = \underline{1}$

8) $(9 \times 2)^6 = \underline{9^6 \times 2^6}$

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

10) $(\frac{1}{6})^9 = \underline{\frac{1}{6^9}}$

11) $(2 \times 3)^2 = \underline{2^2 \times 3^2}$

12) $3^{-8} = \underline{\frac{1}{3^8}}$

13) $4^3 \times 4^4 = \underline{4^{3+4}}$

14) $6^1 = \underline{6}$

15) $6^0 = \underline{1}$

16) $6^1 = \underline{6}$

17) $8^1 = \underline{8}$

18) $3^5 \times 3^{-9} = \underline{3^{5-9}}$

19) $2^7 \times 2^{-5} = \underline{2^{7-5}}$

20) $3^3 \times 3^6 = \underline{3^{3+6}}$

Answers

1. $\underline{6^{6+9}}$

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

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

4. $\underline{1}$

5. $\underline{4^{9 \times 8}}$

6. $\underline{\frac{1}{6^2}}$

7. $\underline{1}$

8. $\underline{9^6 \times 2^6}$

9. $\underline{8^8 \times 4^8}$

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

11. $\underline{2^2 \times 3^2}$

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

13. $\underline{4^{3+4}}$

14. $\underline{6}$

15. $\underline{1}$

16. $\underline{6}$

17. $\underline{8}$

18. $\underline{3^{5-9}}$

19. $\underline{2^{7-5}}$

20. $\underline{3^{3+6}}$