



Use the law of exponents to rewrite each problem.

1) $2^7 \times 2^4 =$ _____

2) $2^{-4} =$ _____

3) $3^1 =$ _____

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

5) $3^0 =$ _____

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

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

8) $7^4 \times 7^4 =$ _____

9) $3^8 \times 3^5 =$ _____

10) $7^2 \times 7^{-7} =$ _____

11) $2^{-5} =$ _____

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

13) $(2 \times 4)^9 =$ _____

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

15) $(3^7)^8 =$ _____

16) $3^0 =$ _____

17) $2^4 \times 2^{-2} =$ _____

18) $6^1 =$ _____

19) $4^{-8} =$ _____

20) $8^0 =$ _____

Answers

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) $2^7 \times 2^4 = \underline{2^{7+4}}$

2) $2^{-4} = \underline{\frac{1}{2^4}}$

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

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

5) $3^0 = \underline{1}$

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

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

8) $7^4 \times 7^4 = \underline{7^{4+4}}$

9) $3^8 \times 3^5 = \underline{3^{8+5}}$

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

11) $2^{-5} = \underline{\frac{1}{2^5}}$

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

13) $(2 \times 4)^9 = \underline{2^9 \times 4^9}$

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

15) $(3^7)^8 = \underline{3^{7 \times 8}}$

16) $3^0 = \underline{1}$

17) $2^4 \times 2^{-2} = \underline{2^{4-2}}$

18) $6^1 = \underline{6}$

19) $4^{-8} = \underline{\frac{1}{4^8}}$

20) $8^0 = \underline{1}$

Answers

1. $\underline{2^{7+4}}$

2. $\underline{\frac{1}{2^4}}$

3. $\underline{3}$

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

5. $\underline{1}$

6. $\underline{3^6 \times 2^6}$

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

8. $\underline{7^{4+4}}$

9. $\underline{3^{8+5}}$

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

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

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

13. $\underline{2^9 \times 4^9}$

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

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

16. $\underline{1}$

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

18. $\underline{6}$

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

20. $\underline{1}$