



Use the law of exponents to rewrite each problem.

Answers

1) $5^1 =$ _____

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

1. _____

3) $(6 \times 7)^5 =$ _____

4) $(3^5)^7 =$ _____

2. _____

3. _____

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

6) $5^3 \times 5^7 =$ _____

4. _____

5. _____

7) $(9 \times 8)^7 =$ _____

8) $9^0 =$ _____

6. _____

7. _____

9) $2^{-2} =$ _____

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

8. _____

9. _____

11) $8^0 =$ _____

12) $9^{-7} =$ _____

10. _____

11. _____

13) $2^1 =$ _____

14) $3^7 \times 3^{-7} =$ _____

12. _____

13. _____

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

16) $7^1 =$ _____

14. _____

15. _____

17) $9^6 \times 9^{-4} =$ _____

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

16. _____

17. _____

19) $5^{-9} =$ _____

20) $(3^4)^5 =$ _____

18. _____

19. _____

20. _____



Use the law of exponents to rewrite each problem.

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

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

3) $(6 \times 7)^5 = \underline{6^5 \times 7^5}$

4) $(3^5)^7 = \underline{3^{35}}$

5) $2^2 \times 2^2 = \underline{2^4}$

6) $5^3 \times 5^7 = \underline{5^{10}}$

7) $(9 \times 8)^7 = \underline{9^7 \times 8^7}$

8) $9^0 = \underline{1}$

9) $2^{-2} = \underline{\frac{1}{2^2}}$

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

11) $8^0 = \underline{1}$

12) $9^{-7} = \underline{\frac{1}{9^7}}$

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

14) $3^7 \times 3^{-7} = \underline{3^0}$

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

16) $7^1 = \underline{7}$

17) $9^6 \times 9^{-4} = \underline{9^2}$

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

19) $5^{-9} = \underline{\frac{1}{5^9}}$

20) $(3^4)^5 = \underline{3^{20}}$

Answers

1. 5

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

3. $6^5 \times 7^5$

4. 3^{35}

5. 2^4

6. 5^{10}

7. $9^7 \times 8^7$

8. 1

9. $\frac{1}{2^2}$

10. $\frac{1}{2^5}$

11. 1

12. $\frac{1}{9^7}$

13. 2

14. 3^0

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

16. 7

17. 9^2

18. 2^{-2}

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

20. 3^{20}