



Use the law of exponents to rewrite each problem.

Answers

1) $5^9 \times 5^{-3} =$ _____

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

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

4) $8^{-7} =$ _____

5) $(2 \times 8)^4 =$ _____

6) $(6 \times 2)^7 =$ _____

7) $(7^6)^7 =$ _____

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

9) $(\frac{1}{3})^5 =$ _____

10) $(4^5)^6 =$ _____

11) $(8^9)^6 =$ _____

12) $4^1 =$ _____

13) $7^1 =$ _____

14) $(\frac{1}{3})^9 =$ _____

15) $4^0 =$ _____

16) $4^0 =$ _____

17) $5^6 \times 5^8 =$ _____

18) $6^0 =$ _____

19) $8^9 \times 8^9 =$ _____

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

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) $5^9 \times 5^{-3} = \underline{5^6}$

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

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

4) $8^{-7} = \underline{\frac{1}{8^7}}$

5) $(2 \times 8)^4 = \underline{2^4 \times 8^4}$

6) $(6 \times 2)^7 = \underline{6^7 \times 2^7}$

7) $(7^6)^7 = \underline{7^{42}}$

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

9) $(\frac{1}{3})^5 = \underline{\frac{1}{3^5}}$

10) $(4^5)^6 = \underline{4^{30}}$

11) $(8^9)^6 = \underline{8^{54}}$

12) $4^1 = \underline{4}$

13) $7^1 = \underline{7}$

14) $(\frac{1}{3})^9 = \underline{\frac{1}{3^9}}$

15) $4^0 = \underline{1}$

16) $4^0 = \underline{1}$

17) $5^6 \times 5^8 = \underline{5^{14}}$

18) $6^0 = \underline{1}$

19) $8^9 \times 8^9 = \underline{8^{18}}$

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

Answers

1. $\underline{5^6}$

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

3. $\underline{5^{10}}$

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

5. $\underline{2^4 \times 8^4}$

6. $\underline{6^7 \times 2^7}$

7. $\underline{7^{42}}$

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

9. $\underline{\frac{1}{3^5}}$

10. $\underline{4^{30}}$

11. $\underline{8^{54}}$

12. $\underline{4}$

13. $\underline{7}$

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

15. $\underline{1}$

16. $\underline{1}$

17. $\underline{5^{14}}$

18. $\underline{1}$

19. $\underline{8^{18}}$

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