



Use the law of exponents to rewrite each problem.

Answers

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

2) $5^1 =$ _____

1. _____

3) $(4 \times 2)^9 =$ _____

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

2. _____

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

6) $2^0 =$ _____

3. _____

7) $(\frac{1}{5})^8 =$ _____

8) $3^0 =$ _____

4. _____

9) $3^{-7} =$ _____

10) $(5^9)^2 =$ _____

5. _____

11) $6^1 =$ _____

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

6. _____

13) $4^8 \times 4^{-4} =$ _____

14) $3^8 \times 3^{-6} =$ _____

7. _____

15) $2^{-6} =$ _____

16) $4^1 =$ _____

8. _____

17) $4^9 \times 4^5 =$ _____

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

9. _____

19) $5^2 \times 5^8 =$ _____

20) $2^0 =$ _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Use the law of exponents to rewrite each problem.

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

2) $5^1 = 5$

3) $(4 \times 2)^9 = 4^9 \times 2^9$

4) $(5 \times 3)^7 = 5^7 \times 3^7$

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

6) $2^0 = 1$

7) $(\frac{1}{5})^8 = \frac{1}{5^8}$

8) $3^0 = 1$

9) $3^{-7} = \frac{1}{3^7}$

10) $(5^9)^2 = 5^{9 \times 2}$

11) $6^1 = 6$

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

13) $4^8 \times 4^{-4} = 4^{8-4}$

14) $3^8 \times 3^{-6} = 3^{8-6}$

15) $2^{-6} = \frac{1}{2^6}$

16) $4^1 = 4$

17) $4^9 \times 4^5 = 4^{9+5}$

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

19) $5^2 \times 5^8 = 5^{2+8}$

20) $2^0 = 1$

Answers

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

2. 5

3. $4^9 \times 2^9$

4. $5^7 \times 3^7$

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

6. 1

7. $\frac{1}{5^8}$

8. 1

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

10. $5^{9 \times 2}$

11. 6

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

13. 4^{8-4}

14. 3^{8-6}

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

16. 4

17. 4^{9+5}

18. $\frac{1}{8^3}$

19. 5^{2+8}

20. 1