



Use the law of exponents to rewrite each problem.

Answers

1)  $3^0 =$  \_\_\_\_\_

2)  $3^3 \times 3^{-5} =$  \_\_\_\_\_

1. \_\_\_\_\_

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

4)  $(7 \times 2)^2 =$  \_\_\_\_\_

2. \_\_\_\_\_

5)  $(8 \times 3)^9 =$  \_\_\_\_\_

6)  $(\frac{1}{4})^8 =$  \_\_\_\_\_

3. \_\_\_\_\_

7)  $8^0 =$  \_\_\_\_\_

8)  $7^8 \times 7^5 =$  \_\_\_\_\_

4. \_\_\_\_\_

9)  $5^3 \times 5^2 =$  \_\_\_\_\_

10)  $4^{-8} =$  \_\_\_\_\_

5. \_\_\_\_\_

11)  $7^1 =$  \_\_\_\_\_

12)  $(8 \times 6)^9 =$  \_\_\_\_\_

6. \_\_\_\_\_

13)  $4^8 \times 4^{-7} =$  \_\_\_\_\_

14)  $4^4 \times 4^3 =$  \_\_\_\_\_

7. \_\_\_\_\_

15)  $(8^4)^3 =$  \_\_\_\_\_

16)  $6^3 \times 6^{-9} =$  \_\_\_\_\_

8. \_\_\_\_\_

17)  $3^0 =$  \_\_\_\_\_

18)  $6^1 =$  \_\_\_\_\_

9. \_\_\_\_\_

19)  $8^{-5} =$  \_\_\_\_\_

20)  $(5^3)^5 =$  \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Use the law of exponents to rewrite each problem.

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

2)  $3^3 \times 3^{-5} = \underline{3^{-2}}$

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

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

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

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

7)  $8^0 = \underline{1}$

8)  $7^8 \times 7^5 = \underline{7^{13}}$

9)  $5^3 \times 5^2 = \underline{5^5}$

10)  $4^{-8} = \underline{\frac{1}{4^8}}$

11)  $7^1 = \underline{7}$

12)  $(8 \times 6)^9 = \underline{8^9 \times 6^9}$

13)  $4^8 \times 4^{-7} = \underline{4^1}$

14)  $4^4 \times 4^3 = \underline{4^7}$

15)  $(8^4)^3 = \underline{8^{12}}$

16)  $6^3 \times 6^{-9} = \underline{6^{-6}}$

17)  $3^0 = \underline{1}$

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

19)  $8^{-5} = \underline{\frac{1}{8^5}}$

20)  $(5^3)^5 = \underline{5^{15}}$

Answers

1. 1

2.  $3^{-2}$

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

4.  $7^2 \times 2^2$

5.  $8^9 \times 3^9$

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

7. 1

8.  $7^{13}$

9.  $5^5$

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

11. 7

12.  $8^9 \times 6^9$

13.  $4^1$

14.  $4^7$

15.  $8^{12}$

16.  $6^{-6}$

17. 1

18. 6

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

20.  $5^{15}$



Use the law of exponents to rewrite each problem.

Answers

1)  $7^0 =$  \_\_\_\_\_

2)  $(\frac{1}{3})^3 =$  \_\_\_\_\_

1. \_\_\_\_\_

3)  $6^2 \times 6^3 =$  \_\_\_\_\_

4)  $(8 \times 3)^8 =$  \_\_\_\_\_

2. \_\_\_\_\_

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

6)  $4^{-8} =$  \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

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

8)  $3^0 =$  \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

9)  $(2^5)^4 =$  \_\_\_\_\_

10)  $4^1 =$  \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

11)  $7^9 \times 7^6 =$  \_\_\_\_\_

12)  $(7^3)^5 =$  \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

13)  $6^6 \times 6^{-9} =$  \_\_\_\_\_

14)  $(7^3)^5 =$  \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

15)  $5^0 =$  \_\_\_\_\_

16)  $(3 \times 6)^7 =$  \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

17)  $5^1 =$  \_\_\_\_\_

18)  $8^5 \times 8^{-9} =$  \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

19)  $4^8 \times 4^{-3} =$  \_\_\_\_\_

20)  $4^1 =$  \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Use the law of exponents to rewrite each problem.

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

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

3)  $6^2 \times 6^3 = \underline{6^5}$

4)  $(8 \times 3)^8 = \underline{8^8 \times 3^8}$

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

6)  $4^{-8} = \underline{\frac{1}{4^8}}$

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

8)  $3^0 = \underline{1}$

9)  $(2^5)^4 = \underline{2^{20}}$

10)  $4^1 = \underline{4}$

11)  $7^9 \times 7^6 = \underline{7^{15}}$

12)  $(7^3)^5 = \underline{7^{15}}$

13)  $6^6 \times 6^{-9} = \underline{6^{-3}}$

14)  $(7^3)^5 = \underline{7^{15}}$

15)  $5^0 = \underline{1}$

16)  $(3 \times 6)^7 = \underline{3^7 \times 6^7}$

17)  $5^1 = \underline{5}$

18)  $8^5 \times 8^{-9} = \underline{8^{-4}}$

19)  $4^8 \times 4^{-3} = \underline{4^5}$

20)  $4^1 = \underline{4}$

Answers

1. 1

2.  $\frac{1}{3^3}$

3.  $6^5$

4.  $8^8 \times 3^8$

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

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

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

8. 1

9.  $2^{20}$

10. 4

11.  $7^{15}$

12.  $7^{15}$

13.  $6^{-3}$

14.  $7^{15}$

15. 1

16.  $3^7 \times 6^7$

17. 5

18.  $8^{-4}$

19.  $4^5$

20. 4



Use the law of exponents to rewrite each problem.

**Answers**

1)  $(3^4)^8 =$  \_\_\_\_\_

2)  $4^1 =$  \_\_\_\_\_

1. \_\_\_\_\_

3)  $2^2 \times 2^6 =$  \_\_\_\_\_

4)  $4^{-2} =$  \_\_\_\_\_

2. \_\_\_\_\_

5)  $(\frac{1}{9})^4 =$  \_\_\_\_\_

6)  $6^{-6} =$  \_\_\_\_\_

3. \_\_\_\_\_

7)  $3^{-4} =$  \_\_\_\_\_

8)  $6^0 =$  \_\_\_\_\_

4. \_\_\_\_\_

9)  $(4^6)^9 =$  \_\_\_\_\_

10)  $(\frac{1}{2})^6 =$  \_\_\_\_\_

5. \_\_\_\_\_

11)  $(7 \times 6)^6 =$  \_\_\_\_\_

12)  $4^3 \times 4^9 =$  \_\_\_\_\_

6. \_\_\_\_\_

13)  $(7^8)^6 =$  \_\_\_\_\_

14)  $9^0 =$  \_\_\_\_\_

7. \_\_\_\_\_

15)  $9^2 \times 9^{-3} =$  \_\_\_\_\_

16)  $8^2 \times 8^{-7} =$  \_\_\_\_\_

8. \_\_\_\_\_

17)  $2^5 \times 2^6 =$  \_\_\_\_\_

18)  $6^0 =$  \_\_\_\_\_

9. \_\_\_\_\_

19)  $(9 \times 7)^8 =$  \_\_\_\_\_

20)  $(\frac{1}{5})^3 =$  \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Use the law of exponents to rewrite each problem.

1)  $(3^4)^8 = 3^{32}$

2)  $4^1 = 4$

3)  $2^2 \times 2^6 = 2^8$

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

5)  $(\frac{1}{9})^4 = \frac{1}{9^4}$

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

7)  $3^{-4} = \frac{1}{3^4}$

8)  $6^0 = 1$

9)  $(4^6)^9 = 4^{54}$

10)  $(\frac{1}{2})^6 = \frac{1}{2^6}$

11)  $(7 \times 6)^6 = 7^6 \times 6^6$

12)  $4^3 \times 4^9 = 4^{12}$

13)  $(7^8)^6 = 7^{48}$

14)  $9^0 = 1$

15)  $9^2 \times 9^{-3} = 9^{-1}$

16)  $8^2 \times 8^{-7} = 8^{-5}$

17)  $2^5 \times 2^6 = 2^{11}$

18)  $6^0 = 1$

19)  $(9 \times 7)^8 = 9^8 \times 7^8$

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

Answers

1.  $3^{32}$

2.  $4$

3.  $2^8$

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

5.  $\frac{1}{9^4}$

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

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

8.  $1$

9.  $4^{54}$

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

11.  $7^6 \times 6^6$

12.  $4^{12}$

13.  $7^{48}$

14.  $1$

15.  $9^{-1}$

16.  $8^{-5}$

17.  $2^{11}$

18.  $1$

19.  $9^8 \times 7^8$

20.  $\frac{1}{5^3}$



Use the law of exponents to rewrite each problem.

Answers

1)  $3^1 =$  \_\_\_\_\_

2)  $6^1 =$  \_\_\_\_\_

1. \_\_\_\_\_

3)  $(\frac{1}{8})^4 =$  \_\_\_\_\_

4)  $4^0 =$  \_\_\_\_\_

2. \_\_\_\_\_

5)  $(8^8)^4 =$  \_\_\_\_\_

6)  $2^3 \times 2^{-2} =$  \_\_\_\_\_

3. \_\_\_\_\_

7)  $2^7 \times 2^3 =$  \_\_\_\_\_

8)  $9^{-4} =$  \_\_\_\_\_

4. \_\_\_\_\_

9)  $(9^4)^2 =$  \_\_\_\_\_

10)  $6^{-6} =$  \_\_\_\_\_

5. \_\_\_\_\_

11)  $3^8 \times 3^5 =$  \_\_\_\_\_

12)  $(\frac{1}{8})^6 =$  \_\_\_\_\_

6. \_\_\_\_\_

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

14)  $(6 \times 3)^9 =$  \_\_\_\_\_

7. \_\_\_\_\_

15)  $8^0 =$  \_\_\_\_\_

16)  $2^1 =$  \_\_\_\_\_

8. \_\_\_\_\_

17)  $(8^4)^4 =$  \_\_\_\_\_

18)  $4^6 \times 4^{-8} =$  \_\_\_\_\_

9. \_\_\_\_\_

19)  $6^0 =$  \_\_\_\_\_

20)  $8^5 \times 8^8 =$  \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Use the law of exponents to rewrite each problem.

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

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

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

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

5)  $(8^8)^4 = \underline{8^{32}}$

6)  $2^3 \times 2^{-2} = \underline{2^1}$

7)  $2^7 \times 2^3 = \underline{2^{10}}$

8)  $9^{-4} = \underline{\frac{1}{9^4}}$

9)  $(9^4)^2 = \underline{9^8}$

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

11)  $3^8 \times 3^5 = \underline{3^{13}}$

12)  $(\frac{1}{8})^6 = \underline{\frac{1}{8^6}}$

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

14)  $(6 \times 3)^9 = \underline{6^9 \times 3^9}$

15)  $8^0 = \underline{1}$

16)  $2^1 = \underline{2}$

17)  $(8^4)^4 = \underline{8^{16}}$

18)  $4^6 \times 4^{-8} = \underline{4^{-2}}$

19)  $6^0 = \underline{1}$

20)  $8^5 \times 8^8 = \underline{8^{13}}$

Answers

1. 3

2. 6

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

4. 1

5.  $8^{32}$

6.  $2^1$

7.  $2^{10}$

8.  $\frac{1}{9^4}$

9.  $9^8$

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

11.  $3^{13}$

12.  $\frac{1}{8^6}$

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

14.  $6^9 \times 3^9$

15. 1

16. 2

17.  $8^{16}$

18.  $4^{-2}$

19. 1

20.  $8^{13}$





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. \_\_\_\_\_

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

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

3. \_\_\_\_\_

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

8)  $9^0 =$  \_\_\_\_\_

4. \_\_\_\_\_

9)  $2^{-2} =$  \_\_\_\_\_

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

5. \_\_\_\_\_

11)  $8^0 =$  \_\_\_\_\_

12)  $9^{-7} =$  \_\_\_\_\_

6. \_\_\_\_\_

13)  $2^1 =$  \_\_\_\_\_

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

7. \_\_\_\_\_

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

16)  $7^1 =$  \_\_\_\_\_

8. \_\_\_\_\_

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

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

9. \_\_\_\_\_

19)  $5^{-9} =$  \_\_\_\_\_

20)  $(3^4)^5 =$  \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

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.  $3^{20}$



Use the law of exponents to rewrite each problem.

Answers

1)  $(2^7)^2 =$  \_\_\_\_\_

2)  $9^0 =$  \_\_\_\_\_

1. \_\_\_\_\_

3)  $3^4 \times 3^{-5} =$  \_\_\_\_\_

4)  $(7^8)^4 =$  \_\_\_\_\_

2. \_\_\_\_\_

5)  $2^4 \times 2^9 =$  \_\_\_\_\_

6)  $8^1 =$  \_\_\_\_\_

3. \_\_\_\_\_

7)  $9^4 \times 9^{-5} =$  \_\_\_\_\_

8)  $(\frac{1}{4})^8 =$  \_\_\_\_\_

4. \_\_\_\_\_

9)  $(7 \times 9)^2 =$  \_\_\_\_\_

10)  $5^1 =$  \_\_\_\_\_

5. \_\_\_\_\_

11)  $9^0 =$  \_\_\_\_\_

12)  $7^0 =$  \_\_\_\_\_

6. \_\_\_\_\_

13)  $(4 \times 5)^9 =$  \_\_\_\_\_

14)  $(\frac{1}{4})^9 =$  \_\_\_\_\_

7. \_\_\_\_\_

15)  $(\frac{1}{8})^4 =$  \_\_\_\_\_

16)  $(4^3)^8 =$  \_\_\_\_\_

8. \_\_\_\_\_

17)  $4^{-6} =$  \_\_\_\_\_

18)  $8^1 =$  \_\_\_\_\_

9. \_\_\_\_\_

19)  $3^3 \times 3^{-2} =$  \_\_\_\_\_

20)  $5^4 \times 5^7 =$  \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Use the law of exponents to rewrite each problem.

1)  $(2^7)^2 = 2^{14}$

2)  $9^0 = 1$

3)  $3^4 \times 3^{-5} = 3^{-1}$

4)  $(7^8)^4 = 7^{32}$

5)  $2^4 \times 2^9 = 2^{13}$

6)  $8^1 = 8$

7)  $9^4 \times 9^{-5} = 9^{-1}$

8)  $(\frac{1}{4})^8 = \frac{1}{4^8}$

9)  $(7 \times 9)^2 = 7^2 \times 9^2$

10)  $5^1 = 5$

11)  $9^0 = 1$

12)  $7^0 = 1$

13)  $(4 \times 5)^9 = 4^9 \times 5^9$

14)  $(\frac{1}{4})^9 = \frac{1}{4^9}$

15)  $(\frac{1}{8})^4 = \frac{1}{8^4}$

16)  $(4^3)^8 = 4^{24}$

17)  $4^{-6} = \frac{1}{4^6}$

18)  $8^1 = 8$

19)  $3^3 \times 3^{-2} = 3^1$

20)  $5^4 \times 5^7 = 5^{11}$

Answers

1.  $2^{14}$

2.  $1$

3.  $3^{-1}$

4.  $7^{32}$

5.  $2^{13}$

6.  $8$

7.  $9^{-1}$

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

9.  $7^2 \times 9^2$

10.  $5$

11.  $1$

12.  $1$

13.  $4^9 \times 5^9$

14.  $\frac{1}{4^9}$

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

16.  $4^{24}$

17.  $\frac{1}{4^6}$

18.  $8$

19.  $3^1$

20.  $5^{11}$



Use the law of exponents to rewrite each problem.

**Answers**

1)  $(8 \times 6)^3 =$  \_\_\_\_\_

2)  $(6^3)^6 =$  \_\_\_\_\_

1. \_\_\_\_\_

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

4)  $5^1 =$  \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

5)  $3^1 =$  \_\_\_\_\_

6)  $4^9 \times 4^9 =$  \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

7)  $2^0 =$  \_\_\_\_\_

8)  $(6^6)^7 =$  \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

9)  $(7 \times 6)^6 =$  \_\_\_\_\_

10)  $8^8 \times 8^4 =$  \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

11)  $2^0 =$  \_\_\_\_\_

12)  $(\frac{1}{5})^9 =$  \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

13)  $3^5 \times 3^{-3} =$  \_\_\_\_\_

14)  $9^{-9} =$  \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

15)  $(8^8)^8 =$  \_\_\_\_\_

16)  $7^7 \times 7^{-8} =$  \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

17)  $4^{-2} =$  \_\_\_\_\_

18)  $(3 \times 7)^8 =$  \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

19)  $6^1 =$  \_\_\_\_\_

20)  $2^0 =$  \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Use the law of exponents to rewrite each problem.

1)  $(8 \times 6)^3 = 8^3 \times 6^3$

2)  $(6^3)^6 = 6^{18}$

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

4)  $5^1 = 5$

5)  $3^1 = 3$

6)  $4^9 \times 4^9 = 4^{18}$

7)  $2^0 = 1$

8)  $(6^6)^7 = 6^{42}$

9)  $(7 \times 6)^6 = 7^6 \times 6^6$

10)  $8^8 \times 8^4 = 8^{12}$

11)  $2^0 = 1$

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

13)  $3^5 \times 3^{-3} = 3^2$

14)  $9^{-9} = \frac{1}{9^9}$

15)  $(8^8)^8 = 8^{64}$

16)  $7^7 \times 7^{-8} = 7^{-1}$

17)  $4^{-2} = \frac{1}{4^2}$

18)  $(3 \times 7)^8 = 3^8 \times 7^8$

19)  $6^1 = 6$

20)  $2^0 = 1$

Answers

1.  $8^3 \times 6^3$

2.  $6^{18}$

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

4.  $5$

5.  $3$

6.  $4^{18}$

7.  $1$

8.  $6^{42}$

9.  $7^6 \times 6^6$

10.  $8^{12}$

11.  $1$

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

13.  $3^2$

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

15.  $8^{64}$

16.  $7^{-1}$

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

18.  $3^8 \times 7^8$

19.  $6$

20.  $1$



Use the law of exponents to rewrite each problem.

Answers

1)  $(\frac{1}{5})^4 =$  \_\_\_\_\_

2)  $4^1 =$  \_\_\_\_\_

3)  $(2^8)^6 =$  \_\_\_\_\_

4)  $4^4 \times 4^{-4} =$  \_\_\_\_\_

5)  $9^{-4} =$  \_\_\_\_\_

6)  $9^6 \times 9^2 =$  \_\_\_\_\_

7)  $(\frac{1}{6})^4 =$  \_\_\_\_\_

8)  $(\frac{1}{2})^3 =$  \_\_\_\_\_

9)  $9^1 =$  \_\_\_\_\_

10)  $(5 \times 4)^7 =$  \_\_\_\_\_

11)  $4^5 \times 4^{-8} =$  \_\_\_\_\_

12)  $2^0 =$  \_\_\_\_\_

13)  $4^0 =$  \_\_\_\_\_

14)  $(8 \times 2)^8 =$  \_\_\_\_\_

15)  $(5^6)^8 =$  \_\_\_\_\_

16)  $5^0 =$  \_\_\_\_\_

17)  $2^7 \times 2^{-2} =$  \_\_\_\_\_

18)  $3^9 \times 3^2 =$  \_\_\_\_\_

19)  $9^{-5} =$  \_\_\_\_\_

20)  $4^1 =$  \_\_\_\_\_

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)  $(\frac{1}{5})^4 = \frac{1}{5^4}$

2)  $4^1 = 4$

3)  $(2^8)^6 = 2^{48}$

4)  $4^4 \times 4^{-4} = 4^0$

5)  $9^{-4} = \frac{1}{9^4}$

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

7)  $(\frac{1}{6})^4 = \frac{1}{6^4}$

8)  $(\frac{1}{2})^3 = \frac{1}{2^3}$

9)  $9^1 = 9$

10)  $(5 \times 4)^7 = 5^7 \times 4^7$

11)  $4^5 \times 4^{-8} = 4^{-3}$

12)  $2^0 = 1$

13)  $4^0 = 1$

14)  $(8 \times 2)^8 = 8^8 \times 2^8$

15)  $(5^6)^8 = 5^{48}$

16)  $5^0 = 1$

17)  $2^7 \times 2^{-2} = 2^5$

18)  $3^9 \times 3^2 = 3^{11}$

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

20)  $4^1 = 4$

Answers

1.  $\frac{1}{5^4}$

2.  $4$

3.  $2^{48}$

4.  $4^0$

5.  $\frac{1}{9^4}$

6.  $9^8$

7.  $\frac{1}{6^4}$

8.  $\frac{1}{2^3}$

9.  $9$

10.  $5^7 \times 4^7$

11.  $4^{-3}$

12.  $1$

13.  $1$

14.  $8^8 \times 2^8$

15.  $5^{48}$

16.  $1$

17.  $2^5$

18.  $3^{11}$

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

20.  $4$





Use the law of exponents to rewrite each problem.

Answers

1)  $7^5 \times 7^{-6} =$  \_\_\_\_\_

2)  $6^0 =$  \_\_\_\_\_

1. \_\_\_\_\_

3)  $(\frac{1}{4})^6 =$  \_\_\_\_\_

4)  $(9^5)^5 =$  \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

5)  $6^7 \times 6^6 =$  \_\_\_\_\_

6)  $(3 \times 6)^3 =$  \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

7)  $5^9 \times 5^{-6} =$  \_\_\_\_\_

8)  $7^{-8} =$  \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

9)  $(5 \times 3)^7 =$  \_\_\_\_\_

10)  $2^{-8} =$  \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

11)  $5^0 =$  \_\_\_\_\_

12)  $(8 \times 9)^2 =$  \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

13)  $6^9 \times 6^6 =$  \_\_\_\_\_

14)  $(4^2)^7 =$  \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

15)  $2^5 \times 2^3 =$  \_\_\_\_\_

16)  $6^8 \times 6^{-4} =$  \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

17)  $(\frac{1}{6})^3 =$  \_\_\_\_\_

18)  $6^1 =$  \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

19)  $4^0 =$  \_\_\_\_\_

20)  $(\frac{1}{2})^6 =$  \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Use the law of exponents to rewrite each problem.

1)  $7^5 \times 7^{-6} = 7^{-1}$

2)  $6^0 = 1$

3)  $(\frac{1}{4})^6 = \frac{1}{4^6}$

4)  $(9^5)^5 = 9^{25}$

5)  $6^7 \times 6^6 = 6^{13}$

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

7)  $5^9 \times 5^{-6} = 5^3$

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

9)  $(5 \times 3)^7 = 5^7 \times 3^7$

10)  $2^{-8} = \frac{1}{2^8}$

11)  $5^0 = 1$

12)  $(8 \times 9)^2 = 8^2 \times 9^2$

13)  $6^9 \times 6^6 = 6^{15}$

14)  $(4^2)^7 = 4^{14}$

15)  $2^5 \times 2^3 = 2^8$

16)  $6^8 \times 6^{-4} = 6^4$

17)  $(\frac{1}{6})^3 = \frac{1}{6^3}$

18)  $6^1 = 6$

19)  $4^0 = 1$

20)  $(\frac{1}{2})^6 = \frac{1}{2^6}$

Answers

1.  $7^{-1}$

2.  $1$

3.  $\frac{1}{4^6}$

4.  $9^{25}$

5.  $6^{13}$

6.  $3^3 \times 6^3$

7.  $5^3$

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

9.  $5^7 \times 3^7$

10.  $\frac{1}{2^8}$

11.  $1$

12.  $8^2 \times 9^2$

13.  $6^{15}$

14.  $4^{14}$

15.  $2^8$

16.  $6^4$

17.  $\frac{1}{6^3}$

18.  $6$

19.  $1$

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



Use the law of exponents to rewrite each problem.

**Answers**

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

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

3)  $4^{-3} =$  \_\_\_\_\_

4)  $8^0 =$  \_\_\_\_\_

5)  $(4^9)^8 =$  \_\_\_\_\_

6)  $6^{-2} =$  \_\_\_\_\_

7)  $5^0 =$  \_\_\_\_\_

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

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

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

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

12)  $3^{-8} =$  \_\_\_\_\_

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

14)  $6^1 =$  \_\_\_\_\_

15)  $6^0 =$  \_\_\_\_\_

16)  $6^1 =$  \_\_\_\_\_

17)  $8^1 =$  \_\_\_\_\_

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

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

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

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)  $6^6 \times 6^9 = \underline{6^{15}}$

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

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

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

5)  $(4^9)^8 = \underline{4^{72}}$

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)  $4^3 \times 4^4 = \underline{4^7}$

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

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

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

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

18)  $3^5 \times 3^{-9} = \underline{3^{-4}}$

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

20)  $3^3 \times 3^6 = \underline{3^9}$

Answers

1.  $\underline{6^{15}}$

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

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

4.  $\underline{1}$

5.  $\underline{4^{72}}$

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.  $\underline{4^7}$

14.  $\underline{6}$

15.  $\underline{1}$

16.  $\underline{6}$

17.  $\underline{8}$

18.  $\underline{3^{-4}}$

19.  $\underline{2^2}$

20.  $\underline{3^9}$