



Use the law of exponents to rewrite each problem.

Answers

1) $9^{-5} =$ _____

2) $4^1 =$ _____

1. _____

3) $2^1 =$ _____

4) $9^0 =$ _____

2. _____

5) $8^1 =$ _____

6) $(2 \times 7)^4 =$ _____

3. _____

4. _____

7) $4^0 =$ _____

8) $9^5 \times 9^7 =$ _____

5. _____

6. _____

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

10) $3^5 \times 3^8 =$ _____

7. _____

8. _____

11) $(5^2)^5 =$ _____

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

9. _____

10. _____

13) $9^{-4} =$ _____

14) $3^5 \times 3^{-4} =$ _____

11. _____

12. _____

15) $5^5 \times 5^3 =$ _____

16) $2^2 \times 2^{-2} =$ _____

13. _____

14. _____

17) $2^6 \times 2^{-2} =$ _____

18) $(4^2)^6 =$ _____

15. _____

16. _____

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

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

17. _____

18. _____

19. _____

20. _____



Use the law of exponents to rewrite each problem.

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

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

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

4) $9^0 = \underline{1}$

5) $8^1 = \underline{8}$

6) $(2 \times 7)^4 = \underline{2^4 \times 7^4}$

7) $4^0 = \underline{1}$

8) $9^5 \times 9^7 = \underline{9^{12}}$

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

10) $3^5 \times 3^8 = \underline{3^{13}}$

11) $(5^2)^5 = \underline{5^{10}}$

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

13) $9^{-4} = \underline{\frac{1}{9^4}}$

14) $3^5 \times 3^{-4} = \underline{3^1}$

15) $5^5 \times 5^3 = \underline{5^8}$

16) $2^2 \times 2^{-2} = \underline{2^0}$

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

18) $(4^2)^6 = \underline{4^{12}}$

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

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

Answers

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

2. $\underline{4}$

3. $\underline{2}$

4. $\underline{1}$

5. $\underline{8}$

6. $\underline{2^4 \times 7^4}$

7. $\underline{1}$

8. $\underline{9^{12}}$

9. $\underline{\frac{1}{2^8}}$

10. $\underline{3^{13}}$

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

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

13. $\underline{\frac{1}{9^4}}$

14. $\underline{3^1}$

15. $\underline{5^8}$

16. $\underline{2^0}$

17. $\underline{2^4}$

18. $\underline{4^{12}}$

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

20. $\underline{\frac{1}{7^6}}$