

Multiply and Dividing Exponents - (5.NBT.A.2)

Zeros are your Heros! Place extra zeros around your decimals as place holders. They must be before a whole number or at the end of a decimal. Multiply zeros to the right, divide to the left. Be strategic, but 2 to 6 should do. Drop the zeros with no value. **Ex: $20.1 \div 10^2 = 00020.1 \div 10^2 =$** Move the decimal 2 places because $10^2 = 10 \times 10$ or it has two zeros. Move the decimal to the left to divide to show the movement of the place values which would move to the right. Note: Your quotient will be smaller than your divisor when you divide (not \div 1).

Move the decimal to the right to divide to show the movement of the place values which would move to the left. Your product will be greater than your smallest factor when you multiply (not \times 1).

1. $0.85 \times 10^3 =$ 0.85000	2. $36.12 \times 10^2 =$ 36.12000	3. $58.01 \times 10^3 =$ 58.01000
4. $0.045 \times 10^3 =$ 0.045000	5. $6.9 \times 10^4 =$ 6.90000	6. $684.78 \times 10^3 =$ 684.78000
7. $0.28 \div 10^1 =$ 000.28	8. $77.6 \div 10^2 =$ 00077.6	9. $863.0 \div 10^3 =$ 000863.0
10. $320.0 \div 10^3 =$ 000320.0	11. $7.45 \div 10^1 =$ 0007.45	12. $80.4 \div 10^2 =$ 00080.4
13. $10.007 \times 10^4 =$ 10.007000	14. $8.51 \times 10^3 =$ 8.51000	15. $0.9 \times 10^4 =$ 0.900000
16. $640.01 \times 10^3 =$ 640.01000	17. $3.57 \times 10^4 =$ 3.5700000	18. $10.756 \times 10^2 =$ 10.756000
19. $450.03 \div 10^2 =$ 000450.03	20. $92,516.0 \div 10^3 =$ 00092516.0	21. $780.0 \div 10^4 =$ 000780.0
22. $0.47 \div 10^1 =$ 000.47	23. $6.8 \div 10^2 =$ 0006.8	24. $60.5 \div 10^2 =$ 00060.5
25. $384.004 \times 10^2 =$ 384.004000	26. $0.78 \times 10^4 =$ 0.780000	27. $1.25 \times 10^2 =$ 1.25000
28. $550.7 \times 10^3 =$ 550.7000	29. $66.29 \times 10^4 =$ 66.29000	30. $0.178 \times 10^5 =$ 0.1780000
31. $20.3 \div 10^2 =$ 00020.3	32. $5480.1 \div 10^2 =$ 0005480.1	33. $66.0 \div 10^3 =$ 00066.0
34. $0.5 \div 10^2 =$ 000.5	35. $708 \div 10^3 =$ 000708.0	36. $5.29 \div 10^1 =$ 0005.29