



Divvy wants to multiply 2.4 by 10 **twice**. He does it like this:

$$2.4 \times 10 = 24$$

$$24 \times 10 = 240$$



Multy thinks he knows a short cut.

$$2.4 \times 100 = 240$$

What rule did Multy know that Divvy did not use?

Work these out on your calculator using Multy's shortcut rule.

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|-------------------------------|-------------------------------|-------------------------------|
| 1. $5.7 \times 10 \times 10$ | 2. $3.2 \times 10 \times 10$ | 3. $25 \times 10 \times 10$ |
| 4. $0.8 \times 10 \times 10$ | 5. $6.78 \times 10 \times 10$ | 6. $45.9 \times 10 \times 10$ |
| 7. $0.1 \times 10 \times 10$ | 8. $23.7 \times 10 \times 10$ | 9. $89.6 \times 10 \times 10$ |
| 10. $4.8 \times 10 \times 10$ | | |

Multy has a similar rule for **dividing** by 10 and by 10 again.

What do you think Multy's rule for dividing by 10 and by 10 again is?

Work these out on your calculator using Multy's shortcut rule for division.

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|----------------------------|----------------------------|----------------------------|
| 11. $3800 \div 10 \div 10$ | 12. $4500 \div 10 \div 10$ | 13. $76.9 \div 10 \div 10$ |
| 14. $9 \div 10 \div 10$ | 15. $230 \div 10 \div 10$ | 16. $53.8 \div 10 \div 10$ |
| 17. $100 \div 10 \div 10$ | 18. $200 \div 10 \div 10$ | 19. $450 \div 10 \div 10$ |
| 20. $4.7 \div 10 \div 10$ | | |

Multy's Rule for multiplying: Instead of multiplying by 10 and by 10 again, simply **multiply by 100**.

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| 1. 570 | 2. 320 | 3. 2500 | 4. 80 | 5. 678 |
| 6. 4590 | 7. 10 | 8. 2370 | 9. 8960 | 10. 480 |

Multy's Rule for dividing: Instead of dividing by 10 and by 10 again, simply **divide by 100**.

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| 11. 38 | 12. 45 | 13. 0.769 | 14. 0.09 | 15. 2.3 |
| 16. 0.538 | 17. 1 | 18. 2 | 19. 4.5 | 20. 0.047 |