

Impress your parents at dinner

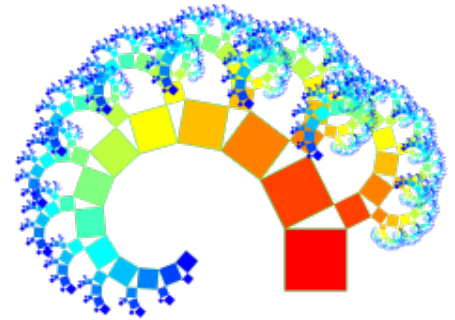
$$34 \times 5 = 170$$

$$184 \times 0.5 = 92$$

$$1,822 \times 5 = 9,110$$

$$36,486 \times 5 = 182,430$$

$$28 \times 50 = 1400$$



1. Study the multiplication problems above?
2. Do you notice any patterns? If so, describe what you notice.
3. Try these multiplications of numbers by 5 in your head.
 - a. $68 \times 5 =$
 - b. $72 \times 5 =$
 - c. $1,260 \times 5 =$
 - d. $4,722 \times 5 =$
 - e. What is $235 \times 5 = ?$
4. Please try to explain what you think is going on here.
5. Now try these:
 - a. 24×0.5
 - b. 186×0.5
 - c. $4,680 \times 0.5$
6. Write down what rule you might be using to mentally do these calculations.
7. Make up some more problems that you think that you can do in your head and can share in class.
8. Can you do these in your head as well?
 - a. 2.4×5
 - b. 7.86×5
 - c. 228×50
9. Try to explain why you think your method works.
10. How might you introduce this new mental math ability to your family?