

What's Your Sign?

You know that multiplying two numbers with the same sign gives a positive product and that multiplying two numbers with different signs gives a negative product. But what happens when you multiply more than two numbers? **Number Sense**

- $2 \times 3 \times 4 = (2 \times 3) \times 4 = 6 \times 4 =$ _____
- $-2 \times (-3) \times (-4) = [-2 \times (-3)] \times (-4) = 6 \times (-4) =$ _____
- $5 \times 25 \times 1 =$ _____
- $-4 \times (-4) \times (-1) =$ _____
- $6 \times 2 \times 6 =$ _____
- $-10 \times (-8) \times (-5) =$ _____
- $8 \times 5 \times 3 =$ _____
- $-9 \times (-9) \times (-9) =$ _____

9. What pattern do you observe in the sign of the product when you multiply three positive numbers?

10. What pattern do you observe in the sign of the product when you multiply three negative numbers?

11. What do you think the sign of the product will be when you multiply an even number of negative numbers? Explain.

12. What do you think the sign of the product will be when you multiply an odd number of negative numbers? Explain.
