

A pink circle containing the text 'INTO MATH' in large white letters and 'LEARN IT FAST' in smaller white letters below it. The circle is set against a yellow square background.

**INTO  
MATH**  
LEARN IT FAST

**GRADE 7 - LESSON 6**

**MULTIPLYING/DIVIDING  
POSITIVE/NEGATIVE  
NUMBERS**

# MULTIPLICATION

When multiplying the two numbers, one of which is 0, the product always = 0.

To multiply any two numbers with opposite signs, multiply their absolute values and add a "-" sign in front of the product.

When changing the sign of either the multiplier or the multiplicand, the absolute value of the product remains the same, but the sign changes.

When changing the signs of both the multiplier and the multiplicand, then the sign of the product remains unchanged.

# MULTIPLICATION

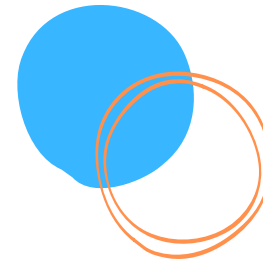
$$a \times 1 = 1 \times a = a;$$

$$(-a) \times b = a \times (-b) = -a \times b = -ab;$$

$$(-a) \times (-b) = ab;$$

$$a \times (-1) = (-1) \times a = -a.$$

# DIVISION



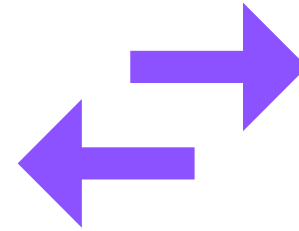
To divide one negative number by another negative number, divide their absolute values, The quotient is positive.

To divide two numbers with opposite signs, divide the absolute value of the dividend by the absolute value of the divisor. The quotient is negative.

0 divided by any number = 0

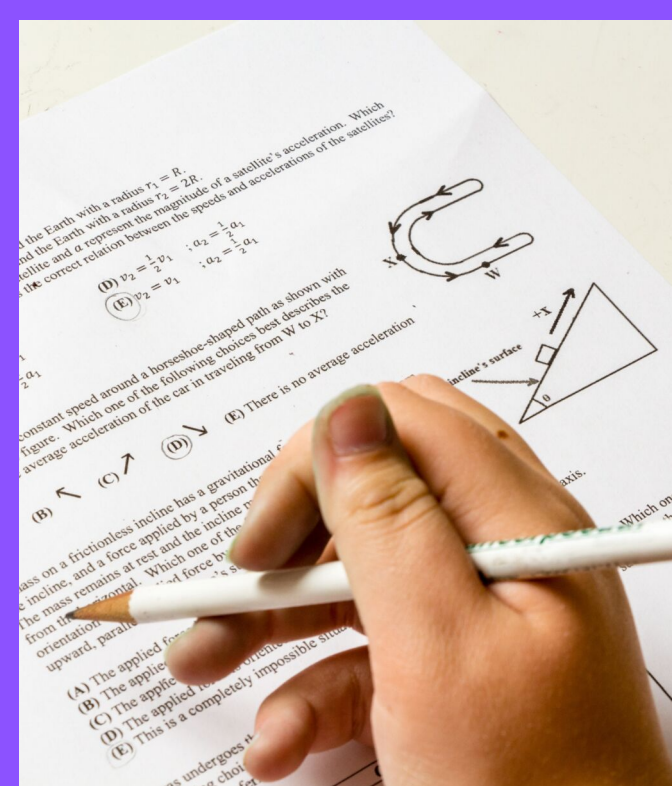
It is impossible to divide by 0

## EVEN AND ODD EXPONENTS



When raising a negative number to an even exponent, the result will be positive.

When raising a negative number to an odd exponent, the result will be negative.



# CONTINUE TO GRADE 7 LESSON 7!

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