**GUÍA DE MATEMÁTICA**

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| NOMBRE: |  |
| CURSO: | 8° Básico | FECHA: | **Semana 16** |
| **OBJETIVO**: **OA 1.** Mostrar que comprenden la multiplicación y la división de números enteros:•representándolas de manera concreta, pictórica y simbólica•aplicando procedimientos usados en la multiplicación y la división de números naturales•aplicando la regla de los signos de la operación• resolviendo problemas rutinarios y no rutinarios |
| **Contenido:** Multiplicación y división de números enteros. |
| **Objetivo de la semana:** Demostrar comprensión de la multiplicación y división de números enteros. Representando situaciones de forma simbólica siguiendo estrategias dadas en guía de trabajo. |
| **Habilidad**: Representar. |

**Instrucciones**

Estimados alumnos y alumnas: En la siguiente guía de trabajo, deberán desarrollar las actividades planeadas para la clase que ha sido suspendida por prevención. Las instrucciones están dadas en cada ítem.

**¡Éxito!**

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| **Representar** es expresar simbólicamente una situación.**Números enteros** es el conjunto de números conformado por enteros positivos y negativos.**Números Enteros.**Los números enteros (**Z**) corresponden a los números naturales (enteros positivos), los enteros negativos y el cero. Este tipo de números los encontramos en diversas situaciones de la vida cotidiana. Como para medir altura y profundidad, temperaturas muy altas y muy bajas, líneas de tiempo antes y después de Cristo,etc.**Multiplicación y División de Números Enteros**

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Para multiplicar y dividir números enteros, podemos utilizar las mismas estrategias que se utilizan para mutiplicar y dividir números naturales. La única diferencia es que al momento de escribir el signo del resultado debemos respetar la siguientes reglas:

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 Si te fijas, cuando los signos de los factores son iguales, el producto (resultado) es positivo. Por otro lado, cuando los signos de los factores son distintos, el producto es negativo.*Esta regla se aplica tanto en la multiplicación como en la división de números enteros.* **Ejemplo con multiplicación de números enteros:***Si el número no tiene signo, asumimos que es positivo.*26 · (-32) =**Paso 1:** Desarrollamos la multiplicación como si no tuviese signos.

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|   | 1 | 5 | 2 |  |  |  |
| + | 7 | 8 | 0 |  |  |  |
|  | 8 | 3 | 2 |  |  |  |

 **El producto de la multiplicación es 832****Paso 2:** Asignamos un signo al resultado de acuerdo a la regla que está más arriba. En este caso, el primer factor es positivo y el segundo es negativo. Por lo tanto el producto es negativo.**+ ·** – **=** –Entonces:26 · (-32) = **(-832)** |
| **Resuelve las siguientes multiplicaciones de números enteros guiándote por los pasos anteriores:** |
| Ejemplo(-246) · (-25) = +6.150

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|  |  | 2 | 3 |  |  |  |  |
|  |  1 | **2** | **4** | **6** | **·** | **2** | **5** |
|  |  1.  | 2 | 3 | 0 |  |  |  |
| + |  4. | 9 | 2 | 0 |  |  |  |
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| **Ejemplo con división de números enteros:**(-50) : (-4) =**Paso 1:** Desarrollamos la división como si no tuviese signos.

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| 5 | 0 | : | 4 | = | **1** | **2 ,** |  **5** |
| 1 | 0 |  |  |  |  |  |  |
|  | 2 | 0 |  |  |  |  |  |
|  |  | 0// |  |  |  |  |  |

 **El cociente de la división es 12,5****Paso 2:** Asignamos un signo al resultado de acuerdo a la regla que está más arriba. En este caso, tanto el dividendo como el divisor son negativos. Por lo tanto el cociente es positivo.– **:** – **=** +Entonces:(-50) : (-4) = +**12,5** |
| **Resuelve las siguientes divisiones de números enteros guiándote por los pasos anteriores:** |
| Ejemplo

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| 4 | 5 | : | 3 | = | **1** | **5** |
| 1 | 5 |  |  |  |  |  |
|  | 0// |  |  |  |  |  |

45 : (-3) = -15 **– : + = –** | (-76) : (-4) =

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 | (-91) : (-7) =

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| **Responde las asiguientes preguntas relacionadas con lo realizado en la guía:** |
| ¿Qué es un número entero?**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**¿Cómo se deben multiplicar? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**¿Cómo se deben dividir? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **TICKET DE SALIDA** |
| **Resuelve las siguientes multiplicaciones de números enteros**

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**Resuelve las siguientes divisiones de números enteros.**

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| (-84) : (-6) =  |
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