**Part A: Complete the statement below.**

A numerical expression is a 1. \_\_\_\_\_\_\_\_ phrase that represents a single value. It consists of one or more 2. \_\_\_\_\_\_ and 3. \_\_\_\_\_\_.

These operations involve 4. \_\_\_\_\_\_, 5. \_\_\_\_\_\_, 6. \_\_\_\_\_\_ and

7. \_\_\_\_\_\_. Remember that there should be **NO** 8. \_\_\_\_\_\_\_ in the expression

**Part B: Determine whether each of the following is a numerical expression or not. Color the circle YELLOW if it is and GREEN if it’s not.**

|  |
| --- |
| 1. $\left(3+7\right)÷5+(3×2)$
 |
| 2.$4+\left(3×5\right)=\left(3×5\right)+4$ |
| 3. $15+25÷5×3-12$ |
| 4. $x-20+11+x-3$ |

**Part C: Complete the tables below.**

|  |  |
| --- | --- |
| **Verbal Phrase** | **Numerical Expression** |
| 1. The sum of nine and eleven times the difference of 9 and 6
 |  |
| 1. The difference of twice of twenty one and thrice of five
 |  |
| 1. Fifty minus the quotient of twenty and two, added to the product of seven and five.
 |  |
| **Numerical Expression** | **Verbal Phrase** |
| 1. $\left(4×12\right)-(2×24)$
 |  |
| 1. $\left(19+6\right)÷(18-13)$
 |  |
| 1. $30÷\left(12-6\right)×(11+7)$
 |  |

**Part D: Compare the numerical expressions below using >,< and = without evaluating. Draw a model that will support your answer.**

$(20+1)×5$$5×(20+1)$

**Part E: Read the situation below and give what is asked.**

A box contains 12 apples. Paul packed 8 boxes of apples. He gave one box to his mom and dad, 4 boxes was given to his friends and sold the 3 remaining boxes. Draw a tape diagram and write the numerical expression that shows the total number of apples that he packed.

**Answers:**

**Part A: Complete the statement below.**

A numerical expression is a 1. mathematical phrase that represents a single value. It consists of one or more 2. numbers and 3. operations.

These operations involve 4. Addition, 5. Subtraction, 6. Multiplication and 7. Division. Remember that there should be **NO** 8. equal sign in the expression.

**Part B: Determine whether each of the following is a numerical expression or not. Color the circle YELLOW if it is and GREEN if it’s not.**

|  |
| --- |
| 1. $\left(3+7\right)÷5+(3×2)$
 |
| 2.$4+\left(3×5\right)=\left(3×5\right)+4$ |
| 3. $15+25÷5×3-12$ |
| 4. $x-20+11+x-3$ |

**Part C: Complete the tables below.**

|  |  |
| --- | --- |
| **Verbal Phrase** | **Numerical Expression** |
| 1. The sum of nine and eleven times the difference of 9 and 6
 | $$\left(9+11\right)×(9-6)$$ |
| 1. The difference of twice of twenty one and thrice of five
 | $$\left(2×21\right)-(3×5)$$ |
| 1. Fifty minus the quotient of twenty and two, added to the product of seven and five
 | $$50-\left(20÷2\right)+(7×5)$$ |
| **Numerical Expression** | **Verbal Phrase** |
| 1. $\left(4×12\right)-(2×24)$
 | Four times of twelve minus twice of twenty-four |
| 1. $\left(19+6\right)÷(18-13)$
 | The sum of nineteen and sixteen divided by the difference of eighteen and thirteen |
| 1. $30÷\left(12-6\right)×(11+7)$
 | Thirty divided by the difference of twelve and six times the sum of eleven and seven |

**Part D: Compare the numerical expressions below using >,< and = without evaluating. Draw a model that will support your answer.**

=

$(20+1)×5$$5×(20+1)$

Model:

$(20+1)×5$**:**

$(20+1) $

$5×(20+1)$**:**

$(20+1) $

The given numerical expressions are just equal because the position of “5” just changed. The grouping is sitill the same.

**Part E: Read the situation below and give what is asked.**

A box contains 12 apples. Paul packed 8 boxes of apples. He gave one box to his mom and dad, 4 boxes was given to his friends and sold the 3 remaining boxes. Draw a tape diagram and write the numerical expression that shows the total number of apples that he packed.

Tape Diagram:

12

12

12

12

12

for his friends

12

12

12

to be sold

for his parents

Numerical expression:

$$12+\left(4×12\right)+(3×12)$$