

Writing and Interpreting Numerical Expressions

 Assignment
Math 5

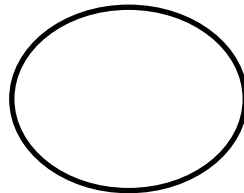
Part A: Complete the statement below.

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

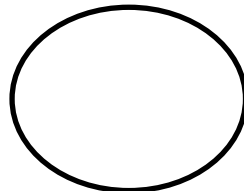
These operations involve 4. _____, 5. _____, 6. _____ and 7. _____. Remember that there should be **NO** 8. _____ in the expression

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.

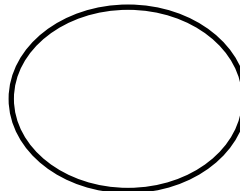
1. $(3 + 7) \div 5 + (3 \times 2)$



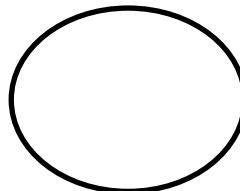
2. $4 + (3 \times 5) = (3 \times 5) + 4$



3. $15 + 25 \div 5 \times 3 - 12$



4. $x - 20 + 11 + x - 3$



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Part C: Complete the tables below.

Verbal Phrase	Numerical Expression
1. The sum of nine and eleven times the difference of 9 and 6	
2. The difference of twice of twenty one and thrice of five	
3. Fifty minus the quotient of twenty and two, added to the product of seven and five.	
Numerical Expression	Verbal Phrase
4. $(4 \times 12) - (2 \times 24)$	
5. $(19 + 6) \div (18 - 13)$	
6. $30 \div (12 - 6) \times (11 + 7)$	

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

$$(20 + 1) \times 5 \quad \boxed{} \quad 5 \times (20 + 1)$$

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.

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Answers:

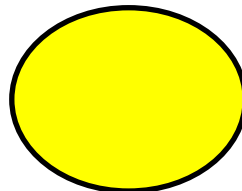
Part A: Complete the statement below.

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

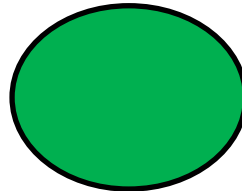
These operations involve 4. **Addition**, 5. **Subtraction**, 6. **Multiplication** and 7. **Division**. Remember that there should be **NO** 8. **equal** sign in the expression.

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.

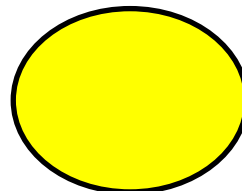
1. $(3 + 7) \div 5 + (3 \times 2)$



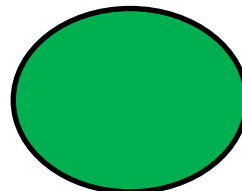
2. $4 + (3 \times 5) = (3 \times 5) + 4$



3. $15 + 25 \div 5 \times 3 - 12$



4. $x - 20 + 11 + x - 3$



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Part C: Complete the tables below.

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

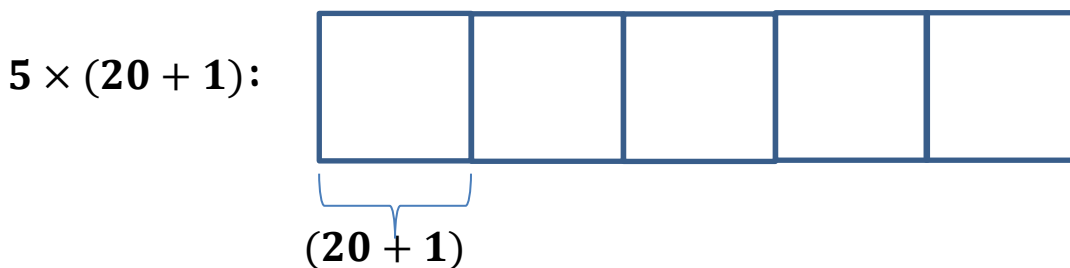
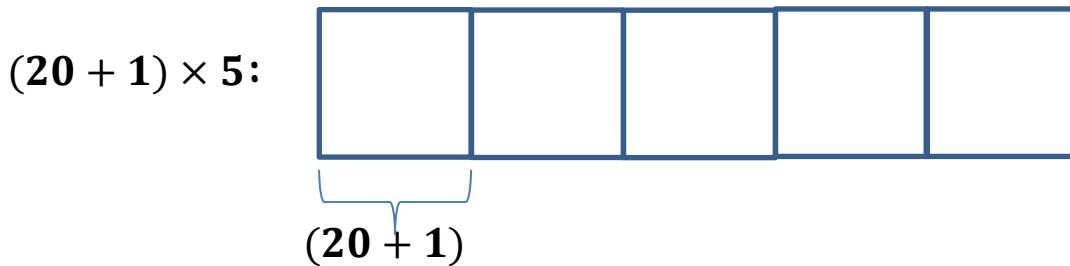
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Part D: Compare the numerical expressions below using $>$, $<$ and $=$ without evaluating. Draw a model that will support your answer.

$$(20 + 1) \times 5 \quad \boxed{=} \quad 5 \times (20 + 1)$$

Model:



The given numerical expressions are just equal because the position of "5" just changed. The grouping is still the same.

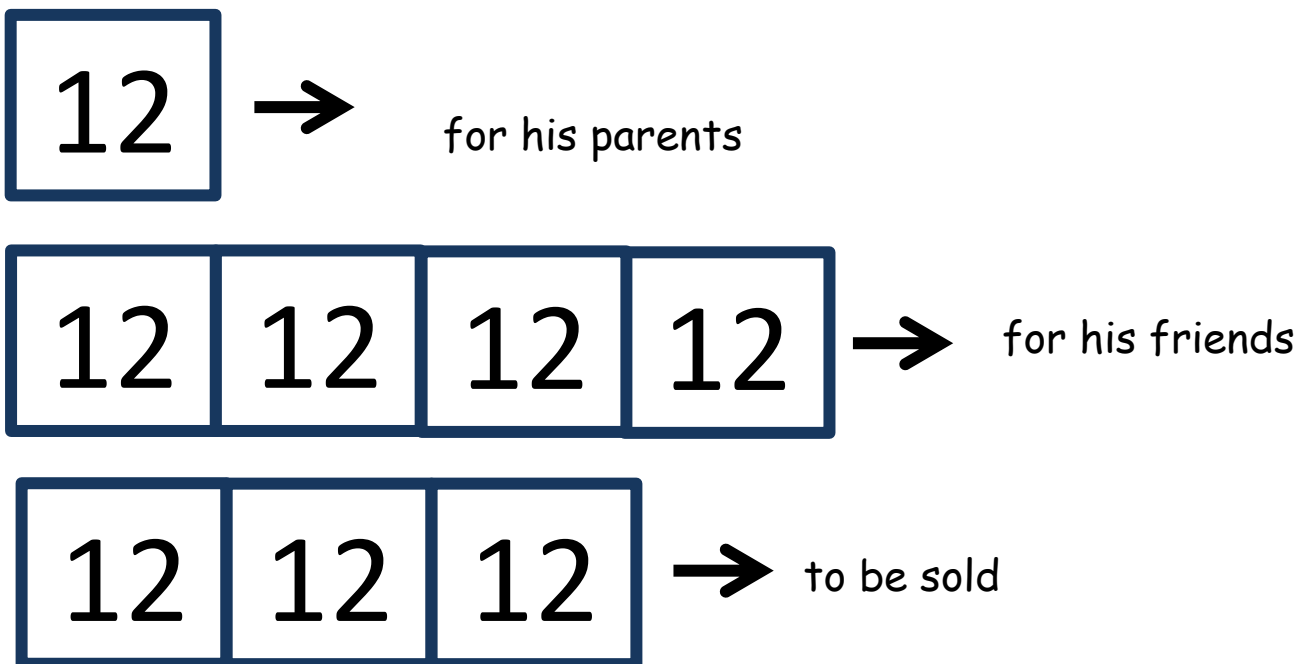
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Part E: Read the situation below and give what is asked.

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:



Numerical expression:

$$12 + (4 \times 12) + (3 \times 12)$$