

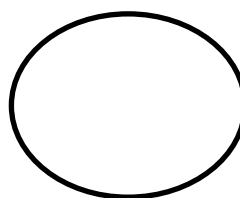
Unit 1 - TEST

Numerical Expressions

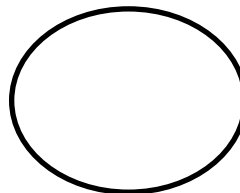
Math 5

Part 1: Determine whether each of the following is a numerical expression or not. Draw a STAR inside the circle if it is a numerical expression and a MOON if otherwise.

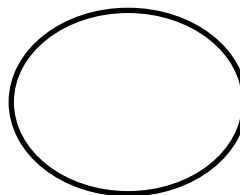
1. $(10 \div 5) \times 2 = (12 \div 6) \times 2$



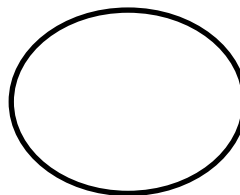
2. $4 + (3 \times 5) - 10$



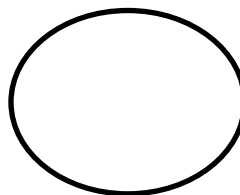
3. $6 - 3 = 15 + 25 \div 5 \times 3 - 12$



4. $y - 10 + 11 + y + 9$



5. $20 \div 4 \times (9 - 3) - 9 + 6$



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Part 2: Highlight the verbal phrases that need grouping symbols **GREEN**, and **YELLOW** if otherwise.

6. The sum of eight and ten divided by two times five.

7. Eleven plus eight minus six times two minus ten.

8. Four plus twenty divided by the product of four and two plus nine.

9. The sum of ten and two times the difference of nine and seven.

10. Ten plus two times nine minus seven.

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Part 3: Write the numerical expression given the verbal phrase.

11.

Eight plus four minus three
times four

12.

The sum of eight and twelve
divided by four.

13.

Eleven minus six plus the
product of nine and three.

14.

The difference of twenty and
four plus the quotient of twenty
eight and four minus eleven.

15.

The product of twelve and five
divided by ten plus the quotient
of sixty and fifteen.

Unit 1 - TEST**Numerical Expressions****Math 5****Part 4:** Write the verbal phrase given the numerical expression.

16.

$$10 \div 2 + 5 \times 3 - 2$$

17.

$$10 - 5 \times 6 \div 15 + 3$$

18.

$$(16 + 9) \div 5 \times (16 - 9)$$

19.

$$32 - (16 \div 2) + 2 \times (10 \div 2)$$

20.

$$14 \times (10 - 8) \div (5 + 2) + 13$$

Unit 1 - TEST**Numerical Expressions****Math 5**

Part 5: Without evaluating, compare the numerical expressions below using $>$, $<$ and $=$. Draw a model that will support your answer.

21. $(13 + 5) \times 4$



$4 \times (13 + 5)$

22. $(20 + 10) \times 2$



$(20 \times 2) + (10 \times 2)$

Name: _____ Period: _____ Date: _____

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Numerical Expressions

Math 5

Part 6: Evaluate the given numerical expressions.

21. $23 + 7 - 4$

22. $35 - (4 + 9)$

23. $2 + (6 - 3) + 9$

24. $(45 + 7) \div (12 \div 3) + 9$

25. $[(75 - 26) \div 7] + 84 \div 12$

Name: _____ Period: _____ Date: _____

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26. $15 \times 4 + (20 \div 4) - (15 \times 3) + 32$

27. $2 + 3 \times [6 \div 2 + (8 \times 5) \div 4] - 20$

28. $[8 \times (6 - 5)] - (7 + 15) \div (19 - 8)$

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Part 7: Solve the following problems.

29. A store is giving away T-shirts at a cheaper price. Originally, each shirt costs \$75. But for a limited time, they're offering a \$30 discount for every shirt bought. Tony and Nick bought 6 shirts and both decided to share the cost.

a. Write a numerical expression to represent the situation above.

b. How much money does Tony and Nick have to share?

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30. Sam won \$100,000 in the lottery. He gave his wife \$50,000 and divided the remaining amount into 4, gave 3 parts to his 3 children equally and kept 1 part for himself. He decided to keep \$10,000 in the bank. He plans to spend the rest of his money on vacation.

a. Write a numerical expression to represent the situation above.

b. How much money does Sam have for his planned vacation?