

4.1 Numeric Expressions

NOTES

MATH 7

Write your questions here!



Numeric Expression =

ORDER OF OPERATIONS

G –

E –

MD –

AS –

$$6 + 3(5)$$

$$4 - 3^2 + 1$$

$$\frac{4 + 6}{2}$$

$$(12 \div 6) - 2(-3)$$

Translating Expressions

Addition

Subtraction

Multiplication

Division

The sum of 4 and 8

9 decreased by 3

4 times bigger than 3

The quotient of 8 and 2

Writing Expressions

A large soda is \$4 and a small soda is \$2. You buy 3 large sodas and 5 small sodas. How much did you spend?

You have 6 solo wins in Fortnite. You get 2 solo wins every day. How many solo wins will you have in 10 days?

SUMMARY:

Now, summarize your notes here!



Evaluate each expression.

1. $4 + 3(6)$

2. $(4 - 6) + 7 + 1$

3. $3^2 - 2(-3)$

4. $\frac{3+7}{6-1}$

5. $\frac{4^2}{10-2}$

6. $24 \div 3(6 - 4)$

7. $-2(5) - 4$

8. $12 - (6 + 3)$

9. $4 \cdot 2 + (1 - 3)$

10. $5^2 \div 5 + 2$

11. $\frac{2(6)}{4}$

12. $\frac{4^2+2}{3} - 5$

Translate to a numeric expression and then evaluate.

13. The quotient of 20 and 4

14. The total of 5 and 8

15. The difference of 6 and 10

16. The product of 4 and 6

17. The sum of 2 and 7

18. 9 increased by 3

Write a numeric expression for each situation. Answer the question.

19. CD's cost \$9 and DVD's cost \$15. Karla buys 6 CD's and 3 DVD's. How much money does Karla spend?

Expression:

Answer:

20. The temperature was 12° outside. The temperature increased 2° per hour for six hours. What is the temperature outside now?

Expression:

Answer:

21. Mikayla makes four 3 point baskets and five 2 point baskets. How many points did she score?

Expression:

Answer:

22. Xavier has 20 dollars. He gives three friends 5 dollars each. How much money does he have left?

Expression:

Answer:

23. Anthony can read 3 books in a week. He has already read 6 books. How many books will he have read in 5 weeks?

Expression:

Answer:

24. Movie tickets for adults are 5 dollars and children's tickets are 3 dollars. Teri buys 4 adult tickets and 3 children tickets. How much does she spend on moving tickets?

Expression:

Answer:

25. It costs 18 dollars to get into an all you can Sushi restaurant. You then pay 4 dollars for every hour you stay. Sue stays at the Sushi restaurant for 3 hours. How much does she owe?

Expression:

Answer:

1. Evaluate the expression.

$$\frac{4^2 + 4}{2}$$

2. Translate to a numeric expression.

12 decreased by 7

3. Decide whether the following expressions are equal. Support your answer!

A) $-4(6) + 2 = -4 + 3(-6)$

B) $3 + (2 + 5) = (3 + 2) + 5$

C) $5 - 9 = 9 - 5$

EXIT TICKET –

Which of the following expressions correctly models the situation? Select ALL that apply.

Ray has 8 dollars. He buys 6 candy bars that cost \$0.75 each. How much money does Ray have left?

(A) $8 + 6(0.75)$

(B) $8 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$

(C) $8 - 6(0.75)$

(D) $8(0.75) - 6(0.75)$

(E) $8 - 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$

(F) $8 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75$

(G) $8(0.75) + 6(0.75)$