

4.1 Numeric Expressions

PRACTICE

Evaluate each expression.

1. $4 + 3(6)$

$4 + 18$

22

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

$-2 + 7 + 1$

$5 + 1$

6

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

$9 - 2(-3)$

$9 + 6$

15

4. $\frac{3+7}{6-1} \cdot \frac{10}{5}$

2

5. $\frac{4^2}{10-2} \cdot \frac{16}{8}$

2

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

$24 \div 3(2)$

$8(2)$

16

7. $-2(5) - 4$

$-10 - 4$

-14

8. $12 - (6 + 3)$

$12 - 9$

3

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

$4 \cdot 2 + (-2)$

$8 + (-2)$

$8 - 2$

6

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

$25 \div 5 + 2$

$5 + 2$

7

11. $\frac{2(6)}{4} \cdot \frac{12}{4}$

3

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

$\frac{16+2}{3} - 5$

$\frac{18}{3} - 5$

$6 - 5$

1

Translate to a numeric expression and then evaluate.

13. The quotient of 20 and 4

$\frac{20}{4}$

5

14. The total of 5 and 8

$5 + 8$

13

15. The difference of 6 and 10

$6 - 10$

-4

16. The product of 4 and 6

$4 \cdot 6$

24

17. The sum of 2 and 7

$2 + 7$

9

18. 9 increased by 3

$9 + 3$

12

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: $6(9) + 3(15)$

Answer: 99 dollars

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

Expression: $12 + 2(6)$

Answer: 24 degrees

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

Expression: $4(3) + 5(2)$

Answer: 22 points

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

Expression: $20 - 3(5)$

Answer: 5 dollars

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: $6 + 3(5)$

Answer: 21 books

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 movie tickets?

Expression: $4(5) + 3(3)$

Answer: 29 dollars

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: $18 + 4(3)$

Answer: 30 dollars