

## Writing Expressions to Solve Problems #1-13

1. In the expression  $4 \times (2 + 6)$ , how does having the "4 x" in front of the parentheses affect the overall value of the expression?

- |                                 |                                    |
|---------------------------------|------------------------------------|
| a. The value is the same        | b. The value is four times greater |
| c. The value is four times less | d. The value is six more           |

2. In the expression  $5 - (8 \times 7)$ , how does having the "x 7" after the 8 affect the overall value of the expression?

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| a. The value is the same            | b. Seven times more gets subtracted |
| c. Eight times more gets subtracted | d. Twice as much is added           |

**Write an expression to match the words given.** Note: Parentheses are not needed to show multiplication or division happening first, because the rules for the order of operation already say that they come before any adding or subtracting.

3. Three times the difference between eighteen and thirteen

4. Five less than the product of eight and three

5. Twelve minus the product of nine and seven

6. The difference between sixteen, and the product of seven and two

7. Ten more than the quotient of thirty-six divided by nine

8. Twice as much as the sum of eighteen and eleven

9. Twenty-four less than the product of six and seven

10. Thirty-seven more than the quotient of twenty-four divided by eight

11. Sam earned \$20.00 for mowing the lawn. He earned \$8.00 dollars each for washing 3 cars. Write an expression that represents the amount of money that he earned all together.
12. Gregory had \$50.00. He spent \$23.75 getting his hair cut. He spent \$3.89 dollars on lunch. He made \$6.00 every time he walked a dog. Gregory walked 4 dogs. Write an expression that represents the amount of money that Gregory has and solve.
13. Bailey had \$38.55 and spent \$12.65 on lunch. After lunch, she picked up her last two paychecks that were \$76.28 each. She spent \$19.99 on a shirt and 14.25 dollars on a pair of pants. Write an expression that represents the amount of money that Bailey has and solve.

### Mystery Number

Some frogs, dragonflies, and turtles were sitting around the pond. There were a total of 122 frogs, dragonflies, and turtles. There were 4 times as many dragonflies as there were frogs. There are 22 turtles. There are 2 less turtles than frogs. How many frogs are around the pond? How many dragonflies?

\_\_\_\_\_ Turtles

\_\_\_\_\_ Frogs

\_\_\_\_\_ Dragonflies