Order of Operations (DMAS/BODMAS/PEMDAS)

A. Complete the following statements or equations.

- 1. Insert parentheses () to make the equation true: $24 \div 6 2 * 3 = 12$
- 2. In the expression 50 $6^2 \div 4$, the operation _____ should be performed first.
- 3. 10 + 4 * = 30
- 4. The "M" and "D" in PEMDAS are solved from _____ to ____.
- 5.8 * (9) = 40

B. Match the expression in Column A with its correct answer in Column B.

Column A	Column B
1. (4 + 6) * 2	A. 14
2.4+6*2	B. 5
3. (20 - 5) ÷ 3	C. 20
4. 20 - 5 ÷ 5	D. 19
5. (2 + 3) ² - 11	E. 14

C. These problems include parentheses, exponents, and negative numbers. Remember the rules!

1.
$$(7 + 2)^2 - 11$$

$$4.4^3 \div 8 + (-5)$$

D. Solve the following expressions. Show your steps.

$$1.12 + 3 * 4$$

$$2.20 - 10 \div 2$$

$$3.8*2+5$$

$$4.16 \div 4 * 3$$

$$5.9 + 6 - 5$$

Test your skills with these tricky problems involving nested parentheses and more complex operations

1.
$$[40 - (3 + 2)^2] * (-3)$$

$$2.(1/3)*(6^2-9)+5$$

3.
$$[(8-2)^3 \div 12] - (7+3*2)$$

$$4.5^2 + (-80 \div 4) \div (2 - 7)$$

5.
$$[(9-4)^2+(11-8)^3] \div 2$$

F. Write a mathematical expression for each problem and then solve it.

- 1. Sarah buys 5 notebooks for 3eachandapackofpensfor3eachandapackofpensfor4. How much did she spend in total?
- 2. A football team starts with 0 points. They score three touchdowns (6 points each) and two field goals (3 points each). They also get a penalty of 5 points. What is their final score?
- 3. Mark has 100inhissavingsaccount.For4weeks,headdshis100inhissavingsaccount.For4weeks,headdshis15 allowance. During that time, he also buys a video game for \$45. How much money is in his account?
- 4. The temperature at noon was 15°C. Over the next 4 hours, it dropped by 2°C each hour. What was the temperature at 4:00 PM?
- 5. A baker bakes 6 batches of 12 cookies. He then sells all but 10 of the cookies. How many cookies did he sell?

G. True or False

$$1.20 - 8 + 2 = 10$$

$$2.4 * 3^2 = 144$$

3. In PEMDAS, Addition must always be done before Subtraction.

$$4.3*(4+5) = 3*4+5$$

$$5.30 \div 5 * 2 = 12$$
