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PEMDAS WORKSHEET-IV

1) Choose the operation that should be done first.

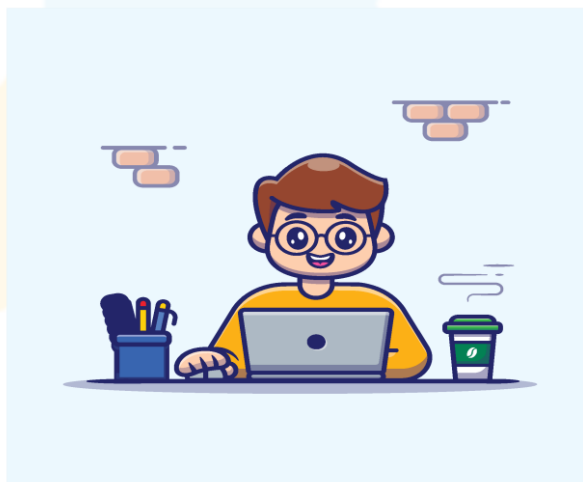
$$120 + \{ [4 \times (5 + 3)] \div 3 \}$$

- a) Brackets
- b) Parentheses
- c) Braces

2) 9 was added to a certain number. This sum was then divided by 3. Finally, the quotient was multiplied by 5. This product came out as 15. What was the number.

3) Simplify: $6 + [(16 - 4) \div (2^2 + 2)] - 2$

4) Barney works one-third of a day for a company. He worked half the remaining hours overtime daily for 5 days. Find Barney's total working hours for these 5 days.



5) Fill in the blanks with the missing operators (+, -, ×, ÷)

$$51 _ 7 \times 5 + 11 = 97$$

6) Use the digits 3, 5, 7, and 9 to obtain 41 as the result for the given expression:

$$\underline{\quad} - \underline{\quad} + \underline{\quad} \times \underline{\quad}$$

7) What is the last step in simplifying the expression below?

$$4 + 8 \times (6 + 2) \div 4 - 2$$

- a) Addition
- b) Multiplication
- c) Subtraction
- d) Division

8) The first step in the order of operations is to simplify

_____.

- a) Braces
- b) Exponent
- c) Of
- d) Parentheses



9) Evaluate: $(20 + 3^4 \div 3 \times 2^3) \div [(54 \div 3^2 + 14) \div 5]$

10) Fill in the blank with appropriate symbol (= or \neq):

$$16 \div 4 \times 3 \square 16 \div (4 \times 3)$$

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- Gary Schwartz

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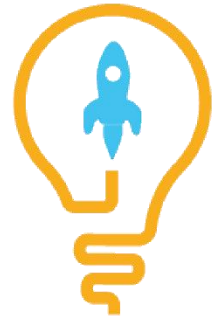
- Kirk Riley

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- Barbara Cabrera

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**ANSWERS**

1)	b) Parentheses
2)	0
3)	6
4)	90 hours
5)	+
6)	9, 3, 7, 5
7)	c) Subtraction
8)	d) Parentheses
9)	59
10)	\neq

FUN FACT

1. PEMDAS is actually the abbreviated form of parentheses, exponents, multiplication, division, addition, and subtraction, introduced in the 1600s!
2. An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".
3. Many mnemonics following order of operations are used along with PEMDAS

