

Concept: Order of Operations

Name: _____


COMPUTER COMPONENT

Instructions: In  follow the **Content Menu** path:

Fractions > Order of Operations

 Work through all Sub Lessons of the following Lessons **in order**:

- *Order in Addition*
- *Order in Multiplication*
- *Why Use Order of Operations?*
- *BEDMAS*
- *Example Questions*

 As you work through the computer exercises, you will be prompted to make notes in your notebook/math journal.

NOTES

1. *Order in Addition*

Conclusion: _____

2. *Order in Multiplication*

Conclusion: _____

3. *Why Use Order of Operations?*

4. *BEDMAS* is one of the acronyms used to help us remember the order of operations.

Describe each step in BEDMAS below.

B _____

E _____

D _____

M _____

A _____

S _____

5. Please **Excuse My Dear Aunt Sally** is another acronym used to help us remember the order of operations. *Use a straight line to connect the acronym with the correct operation and symbol.*

P lease	Subtraction	÷
E xcuse	Division	-
M y	Parentheses	×
D ear	Addition	3°
A unt	Exponents	()
S ally	Multiplication	+

6. Does the ‘Order of Operations’ really affect the outcome of a question?

$$\text{Is } \frac{5}{6} + \frac{4}{9} \times \frac{3}{8} = \quad \text{equal to} \quad \left(\frac{5}{6} + \frac{4}{9}\right) \times \frac{3}{8} =$$

Explain your thinking: _____

OFF COMPUTER EXERCISES

1. Use your knowledge of the ‘Order of Operations’ to answer the following questions. *Simplify and show all of your thinking.*

(a) $\frac{5}{6} + \frac{4}{9} \times \frac{3}{8} =$

(b) $\frac{5}{6} - \frac{2}{9} \div \frac{3}{7} =$

$$(c) \frac{8}{9} \times \frac{15}{16} - \frac{3}{32} =$$

$$(d) \frac{6}{7} \div \frac{18}{28} + \frac{4}{6} \times \frac{5}{3} =$$

$$(e) \frac{3}{4} - \frac{4}{10} + \frac{7}{8} =$$

$$(f) \frac{3}{10} \times \frac{12}{13} \div \frac{3}{5} =$$

$$(g) \frac{12}{18} \times \frac{3}{8} - \frac{1}{3} + \frac{1}{8} =$$

$$(h) \frac{8}{9} - \frac{1}{7} \times 5 =$$

2. **Create** two questions for your friends to answer. *Did they remember to apply their knowledge of the ‘Order of Operations’?*