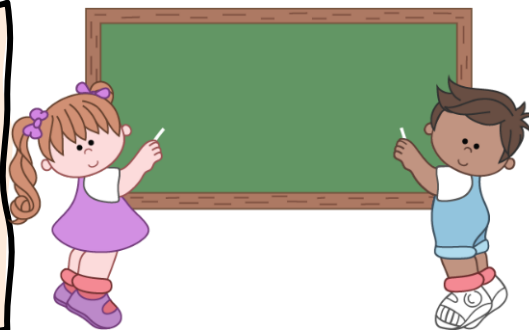


Simplifying Numerical Expressions (Order of Operations) Exit Quiz

1. Tom and Jenny were asked to simplify the same numerical expressions on the board:

$8(4 + 5) \div 12 - (-6)$

Examine their solutions and answer the questions that follow.



Tom's Solution

$$8(4 + 5) \div 12 - (-6)$$

$$8(9) \div 12 - (-6)$$

$$72 \div 12 - (-6)$$

$$6 - (-6)$$

$$12$$

Jenny's Solution

$$8(4 + 5) \div 12 - (-6)$$

$$8(9) \div 12 - (-6)$$

$$72 \div 12 - (-6)$$

$$72 \div 18$$

$$4$$

- a. Compare how Tom and Jenny simplified the expressions by writing the order of the operations used, as shown in each of their solutions.

Tom's Solution

ORDER OF OPERATIONS

Jenny's Solution

ORDER OF OPERATIONS

- b. Who do you think gave the correct solution? Justify your answer.

Answer:

Name: _____ Period: _____ Date: _____

Simplifying Numerical Expressions (Order of Operations) Exit Quiz

2. Simplify the following numerical expressions.

a. $(5 - 10)^2 [3^2(12 \div 3) - (4^2)]$

b. $-2[16 \div (-2)^2] - 2[(-64 \div 16) + 5]^2$