6th grade math
Mrs. Mujica

April 9, 2020

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Example

Follow the order of operations to simplify $12 - 3^2$.

First find 3^2. $3^2 = 3 \cdot 3 = 9$

Then subtract 9 from 12. $12 - 9 = 3$

This means that:

$12 - 3^2 = 12 - 9 = 3$

The value of the expression is 3.

1. Explain why you must simplify 3^2 first.

2. Diallo says that the value of $12 - 3^2$ is 81. How did he get that answer?

3. Maggie says that if the expression was $12 \div 3^2$, you would divide before simplifying 3^2. Is she right? Explain.

4. Suppose the expression was $(12 - 3)^2$. Would you still simplify 3^2 first? Explain.

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5 What is the value of $4 + 2^3 \cdot 3$?

Show your work.

24
8
= 28
4×4=16

6 What is the value of $\frac{4^2}{2}$? Describe the steps you took to find your answer.

$\frac{16}{2} = 8$

7 Darren and Barb each tried to evaluate $6^2 + 4 \div 2$.

Darren

$6^2 + 4 \div 2$
$= 36 + 4 \div 2$
$= 40 \div 2$
$= 20$

Barb

$6^2 + 4 \div 2$
$= 36 + 4 \div 2$
$= 36 + 2$
$= 38$

Who evaluated the expression correctly? Explain what the other student did wrong.

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8 Use the numbers 8, 6, and 2 and one operation to write an expression that includes an exponent and has a value of 8. Use each number only once.

Example = $2^6 \div 8$

9 Show where to place parentheses in the expression $4 + 3^2 \cdot 5 - 2$ so that the value of the expression is 31.

$4 + 3^2 \cdot (5 - 2)$

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Any question?

Practice for today: pages 167-168

REMINDER:

ALL HOMEWORKS ARE DUE TODAY!

Mathia – 90mins

Edulastic – FSA (if you haven't uploaded) / DreMakeUp3(MAFS.6.EE.1.1)

Practice Pages – Answers