

Name: _____ Date: _____

The Royal Order

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Order of Operations

Without using your calculator, with a partner, evaluate each of the following expressions.

$$9 + 6 \div 2 \times 3 =$$

$$15 (3 + 6) =$$

$$10 - 2 \div 2 + 6 =$$

$$14 + 2^2 \div 2 =$$

$$5 (4 - 2)^2 =$$

Now, use your calculator to evaluate the expression again.

Did you get the same answers? _____

Which answers were different? Why? How did the calculator combine the numbers to get its answer?

Thinking Cap

Describe how to evaluate this expression using the proper order of operations.

$$[15 \div (-5) \times 17 - 17 \times 2]^2$$

The Royal Order

Order of Operations

Using this Activity:

Emphasize with the students that multiplication and division are done in order from left to right as are addition and subtraction.

This activity could be used as a lead in to order of operations or as an extra review. Also suggested as a follow-up is to pair the students, have one student work with the calculator and one without. The students should work 5 problems each, switching roles after 5 to work the next 5.

Answers :

Evaluation answers:

18

135

15

16

20

Objective: Use the calculator to investigate the proper order of operations for evaluating expressions

NCTM Standards: Mathematics as Problem Solving; Mathematical Connections; Algebra; Computation and Estimation