Name _____

Reteaching
8-2

Order of Operations

If you do not use the proper order of operations, you will not get the correct answer.

Evaluate $2^3 \div 2 + 3 \times 6 - (1 \times 5)$.

Step 1. Do the operations inside the parentheses.

$(1 \times 5) = 5$
$2^3 \div 2 + 3 \times 6 - 5$

Step 2. Evaluate any terms with exponents.

$2^3 = 8$
$8 \div 2 + 3 \times 6 - 5$

Step 3. Multiply and divide in order from left to right.

$8 \div 2 = 4$ and $3 \times 6 = 18$
$4 + 18 - 5$

Step 4. Add and subtract in order from left to right.

$4 + 18 = 22$
$22 - 5 = 17$
So, $2^3 \div 2 + 3 \times 6 - (1 \times 5) = 17$

Write which operation should be done first.

1. $6 + 3 \times 2$ _____

2. $13 - 1 + 4 \div 2$ _____

3. $5 \times (7 - 2) + 1$ _____

4. $(19 + 23) - (4 \times 5)$ _____

For questions **5** through **8**, evaluate the expression for $x = 6$ and $y = 17$.

5. $4x + 5y$ _____

6. $2x + (20 - y)$ _____

7. $x \div 3 + y$ _____

8. $4y \div 2 + (8x + 10)$ _____

9. Patty made $34 baby sitting on each of 3 weekends. If she spent $50 on gifts for her family, how much money does she have left?

_____

10. Carlos solved $20 - (2 \times 6) + 8 \div 4 = 29$. Is this the correct answer?

_____

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