Order of Operations

Please Excuse My Dear Aunt Sally

Objectives: 1. TSW use order of operations to simplify expressions

P — **Parenthesis**
E — **Exponents**
M — **Multiplication** } From left to right
D — **Division**
A — **Addition** } From left to right
S — **Subtraction**

Examples

1. $(5 \bullet 4) - 18 \div 2$

$20 - 18 \div 2$
$20 - 9$
11

2. $6^2 \div 4 - 2 \bullet 3$

$36 \div 4 - 2 \bullet 3$
$9 - 2 \bullet 3$
$9 - 6$
3

3. $2(4 + 10) \div 7 + 5^2 \bullet 2$

$2 \bullet 14 \div 7 + 5^2 \bullet 2$
$2 \bullet 14 \div 7 + 25 \bullet 2$
$28 \div 7 + 25 \bullet 2$
$4 + 25 \bullet 2$
$4 + 50$
54

4. $8 + 2 \bullet 15 - 60 \div 3$

5. $6 \div 2 + 14 \div 7 \bullet 12$

6. $8 + (9 \bullet 6 + 8) \div 2 - 13 \bullet 3$

$8 + (54 + 8) \div 2 - 13 \bullet 3$
$8 + 62 \div 2 - 13 \bullet 3$
$8 + 31 - 13 \bullet 3$
$8 + 31 - 39$
$39 - 39$
0