Chapter 1 section 5
Order of Operations
The sentence: John said Mary can run.
Needs punctuation. Put in.
Who can run?

Punctuation is very important since the meaning of a sentence can be interpreted many ways.
As with English, mathematics also has punctuation.
Order of operation.
why have it?
$4+3 \cdot 2$
Grouping symbols - parentheses, brackets, curly braces

$$
(4+3) \cdot 2 \quad[4+3] * 2 \quad\{4+3\} * 2
$$

Exponents
Multiplication, division in order from left to right
Addition, subtraction in order from left to right
$12+4 \cdot 2-3$
Example 1: page 65
Evaluate: $4+3$ • 2

Example 3
Evaluate: 54 $\div$ ••2
Example 5: page 66
Evaluate: $12+2(3+2 \cdot 5)^{2}$

Example 7: page 67
Evaluate: $\frac{6^{2}+8^{2}}{(2+3)^{2}}$
Distributive Property
$a \cdot(b-c)=a \cdot b-a \bullet c$

Example 10: page 70
$3 \cdot(12-8)$

