Unit 5 The Order of Operations

- 1. Mathematical expressions may involve one or more operations.
 - A. Six important math operations are addition, subtraction, multiplication, division, exponents, and roots.
 - B. These are math expressions with one operation.

| 4 | + 2 | |
|------|-----|--|
| 1000 | | |

6 - 3



9 ÷ 3

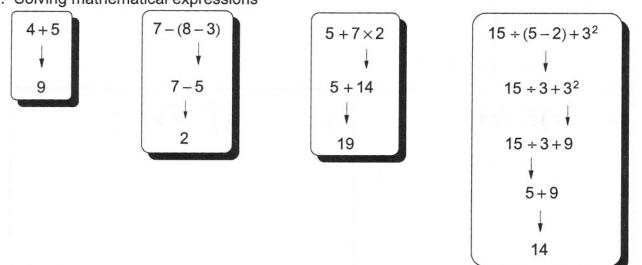




C. Order of operations is important when a math expression has more than one operation. When given a choice of two math operations to perform, the **higher order operation is done first**. **Equal order operations are performed from left to right**.

| | The Order of Operations | | | | | |
|-----|-------------------------------------|-----|--|--|--|--|
| 1st | Operations within parenthesis | 3rd | Multiplication and Division (middle order) | | | |
| 2nd | Exponents and Roots (highest order) | 4th | Addition and Subtraction (lowest order) | | | |

2. Solving mathematical expressions





| Simplify the foll | owing expressions: | waadd aan | A STAR BARY LOOK - A |
|-------------------|--------------------|-----------------------|------------------------|
| 1) 8 + 3 - 4 | 3) 8 - (6 - 4) + 2 | 5) $24 \div (6-2)4^2$ | 6) $(9-5) + 16 \div 4$ |
| 2) 12 - (6 - 4) | 4) 16 ÷ 4×2 | | |
| | | | |

Unit 5 answers are on page 237.

Unit 5 additional practice problems are on page 160.