

1.1-1.2

ORDER OF OPERATIONS

OBJECTIVE

To SIMPLIFY expressions using the order of operations

Simplify the following using the order of operations:

- 1) $6 + 5(8 - 2)$
- 2) $2 + 3 \cdot 5^2$
- 3) $16 \div 2 \cdot 4$
- 4) $10 - 3 + 2 \cdot 4$

Parenthesis

1) $6 + 5(8 - 2)$

Exponents

2) $2 + 3 \cdot 5^2$

Multiply/Divide

3) $16 \div 2 \cdot 4$

Add/Subtract

4) $10 - 3 + 2 \cdot 4$

Brackets

5) $18 - [52 \div (7 + 6)]$

Fractions

6) $\frac{8 \cdot 5 + 2 \cdot 7}{2(7 - 4)}$

$$7) (4 + 3 \cdot 6)2 - 10$$

$$9) 8 - 36 \div 4 + 5$$

$$8) 24 - 2[18 \div (5 + 1)]$$

$$10) \frac{8 + 5 \cdot 4}{10 - 6}$$



Evaluate the expressions if $a=2$, $b=4$, $c=8$

$$11) ab \cdot c$$

$$13) b + 3a^2 \cdot 2 \div 2$$

$$12) 3 \cdot a(c - b)$$

$$14) \frac{2(b + c)}{a}$$