## Mathematics Rules

Order of Operations: BOMDAS

1. Brackets
2. Orders (Power of \& Square Roots)
3. Multiplication
4. Division
5. Addition
6. Subtraction

## Example

$7+\left(6 \times 5^{2}+3\right) ? ?$
$7+(6 \times 25+3) \quad$ Start inside Brackets, and then use "Orders" First
$7+(150+3) \quad$ Then Multiply
$7+(153) \quad$ Then Add
$7+153 \quad$ Brackets completed, last operation is add
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Rules for Adding/Subtracting
Signs SAME

- Add numbers
- Keep sign


## Signs DIFFER

- Subtract smaller from bigger
- Use sign of bigger


## Rules for Multiplying/Dividing

## Signs SAME

- Multiply/Divide
- Use +

Signs DIFFER

- Multiply/Divide
- Use -

1 What is the value of $3+6 \div 3 \times 2$ ?
A7
B6
C4
D 1.5

2 What is the value of $20-\left(3 \times 2^{3}-5\right)$ ?

> A-191 B1 C11 D131

3 What is the value of $5 \times 3-12 \div 4+8$

## A3 B4 C14 D20

4 What is the value of $5 \times 4-2 \times 3+16 \div 4$

A10 B11½ C18 D34
$5 \quad$ What is the value of $(3+2)^{2}-5 \times 3+2^{3}$ ?
A2 $\begin{array}{llll}\mathrm{B} 6 & \mathrm{C} 18 & \mathrm{D} 38\end{array}$

