## SmartMâthz

Order of Operations (involving addition, subtraction, multiplication \& division)
Grade 6 Expressions \& Equations Worksheet Date:

Name:
Evaluate each expression using the order of operations (PEMDAS).
Note: MD (Multiplication and Division is from Left to Right); AS (Addition and Subtraction is from Left to Right)

1. $3 \times 19 \times 14+18 \div 2=\square$

Workings:

Workings:
2. $14+18 \div 2 \times 18-7=\square$
3. $2 \times 10+10-8=$ $\square$
4. $18 \div 6+4 \times 15=\square$
$\square$

## Workings: <br> Workings:

Workings:

5. $11 \times 11-6 \times 17+4=\square$

## Workings:

## Order of Operations (involving addition, subtraction, multiplication \& division)

Grade 6 Expressions \& Equations Answer Sheet

1. $3 \times 19 \times 14+18 \div 2=807$
2. $14+18 \div 2 \times 18-7=169$
3. $2 \times 10+10-8=22$
4. $18 \div 6+4 \times 15=63$
5. $11 \times 11-6 \times 17+4=23$

| Workings: |  |
| :--- | ---: |
| $3 \times 19 \times 14+18 \div 2$ | First, multiply $3 \times 19=57$ |
| $=57 \times 14+18 \div 2$ | Next, multiply $57 \times 14=798$ |
| $=798+18 \div 2$ | Then, divide $18 \div 2=9$ |
| $=798+9$ | Finally, add $798+9=807$ |
| $=807$ |  |


| Workings: |  |
| :--- | ---: |
| $14+18 \div 2+\times 18-7$ | First, divide $18 \div 2=9$ |
| $=14+9+\times 18-7$ | Then, multiply $9 \times 18=162$ |
| $=14+162-7$ | Next, add $14+162=176$ |
| $=176-7$ | Finally, subtract $176-7=169$ |
| $=169$ |  |

## Workings:

| $2 \times 10+10-8$ | First, multiply $2 \times 10=20$ |
| :--- | ---: |
| $=20+10-8$ | Next, add $20+10=30$ |
| $=30-8$ | Finally, subtract $30-8=22$ |
| $=\mathbf{2 2}$ |  |


| Workings: |  |
| :--- | ---: |
| $18 \div 6+4 \times 15$ | First, divide $18 \div 6=3$ |
| $=3+4 \times 15$ | Then, multiply $4 \times 15=60$ |
| $=3+60$ | Finally, add $3+60=63$ |
| $=\mathbf{6 3}$ |  |


| Workings: |  |
| :--- | ---: |
| $11 \times 11-6 \times 17+4$ | First, multiply $11 \times 11=121$ |
| $=121-6 \times 17+4$ | Then, multiply $6 \times 17=102$ |
| $=121-102+4$ | Next, subtract $121-102=19$ |
| $=19+4$ | Finally, add $19+4=23$ |
| $=\mathbf{2 3}$ |  |

