Order of Operation ---- BIDMAS

When there is more than 1 calculation to be done, the operations MUST be done in the following order:

Brackets

Indices

Division/Multiplication Addition/subtraction

Examples

1.
$$3 + 6 \times 2$$

$$2.4 \times 7 - 80 \div 2$$

$$3. 2^3 - 14 \div (2+5) + 6$$

$$= 3 + 12$$

$$= 28 - 40$$

$$= 2^3 - 14 \div 7 + 6$$

$$= 2^3 - 2 + 6$$

$$= 8 - 2 + 6$$

Now complete the following exercises

Exercise 1

19.
$$(6 \times 3 + 2) \div (4 + 2 \times 3)$$
 20. $50 - 16 \div 2 + 6$

25.
$$36 \div 3^2 + (12 \div 3)^2$$

28.
$$6 + 2(3 + 2^2)$$

31.
$$\frac{14+3\times(9+3)}{6\times4+1}$$

34.
$$1 + 3^2 \times 4 - 3 \times 2^3$$

5.
$$6 + 3^2 \times 2$$

17.
$$12 - 3 \times 2^{2}$$

26.
$$22 + 6^2 \div 2 + 1$$

32.
$$\frac{6-1}{6-1}$$

35.
$$(10 + 2 \times 4^2) \div 6 + 3 \times 5$$

9.
$$20 \div (2 + 3)$$

27.
$$10 - (9 \div 3^2 + 4)$$

33.
$$1 + 3 \times (6^2 - 4 \times 3^2 + 8)$$

35.
$$(10 + 2 \times 4^2) \div 6 + 3 \times 5$$
 36. $((3 \times 5^2 - 3) \div (3^2 + 3) \times 2^2$

Exercise 2

4. $-12 + 2^3$

2.
$$-2 + 16 \div 8$$

5.
$$(-10 \times 2) + (-7)^2$$

3.
$$2 \times 4 - 3 \times 5$$

7.
$$3 \times (8 + (-2))$$
 8. $-5 \times (-3 - (-8)) + 4$ 9. $(7-8) \times 3 + 2$