Order of Operations

Which operations would you use to find the answer to this question?
$18 - 6 \div 3 = ?$

We use brackets if we want certain operations carried out first.
To make sure everyone gets the same answer when evaluating
an expression, we use this order of operations:

- Do the operations in brackets.
- Multiply and divide, in order, from left to right.
- Then add and subtract, in order, from left to right.

➤ Evaluate: $16 - 14 \div 2$

$$16 - \boxed{14 \div 2}$$

$$= 16 - 7$$

$$= 9$$

> Divide first: $14 \div 2 = 7$
> Then subtract: $16 - 7 = 9$

➤ Evaluate: $18 - 10 + 6$

$$\boxed{18 - 10} + 6$$

$$= 8 + 6$$

$$= 14$$

> Subtract first: $18 - 10 = 8$
> Then add: $8 + 6 = 14$

➤ Evaluate: $7 \times (4 + 8)$

$$7 \times \boxed{(4 + 8)}$$

$$= 7 \times 12$$

$$= 84$$

> Do the operation
> in brackets first:
> $4 + 8 = 12$
> Then multiply:
> $7 \times 12 = 84$

> The order of operations is :
> Brackets
> Multiply and Divide
> Add and Subtract

Evaluate each expression.
Use the order of operations.

a) $18 + 4 \times 2$ b) $25 - 12 \div 3$ c) $24 + 36 \div 9$

d) $12 - 8 - 4$ e) $50 - 7 \times 6$ f) $7 \times (2 + 9)$

g) $81 \div 9 - 6$ h) $25 \div (9 - 4)$ i) $13 - 6 + 8$

j) $(9 + 6) \div 3$ k) $19 + 56 \div 8$ l) $8 \times (12 - 5)$

Monsieur Lefèvre bought 2 boxes of fruit bars
for his 3 children.
Each box has 6 fruit bars.
The children shared the fruit bars equally.
How many fruit bars did each child get?
Write an expression to show
the order of operations you used.

Copy each number sentence.
Use brackets to make each number sentence true.

a) $36 \div 4 \times 3 = 3$

b) $20 \div 5 \times 2 + 3 = 5$

c) $10 - 4 \div 2 - 1 = 6$

d) $6 \times 2 + 8 \div 4 = 15$