

# 7

## 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:  $16 - 14 \div 2$

$$\begin{aligned} 16 - 14 \div 2 \\ = 16 - 7 \\ = 9 \end{aligned}$$

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



► Evaluate:  $18 - 10 + 6$

$$\begin{aligned} 18 - 10 + 6 \\ = 8 + 6 \\ = 14 \end{aligned}$$

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



► Evaluate:  $7 \times (4 + 8)$

$$\begin{aligned} 7 \times (4 + 8) \\ = 7 \times 12 \\ = 84 \end{aligned}$$

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