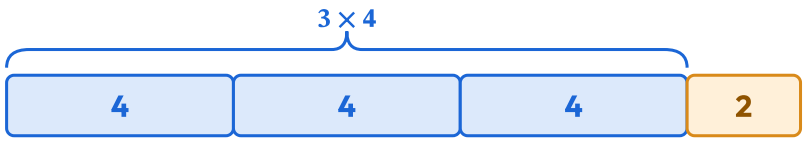
Names (pair) _____ Date _____

Order of Operations

Example



Ana buys 3 notebooks at 4 euros each and a pencil for 2 euros. How much does she pay?

$3 \times 4 + 2 = 12 + 2 = 14$

We multiply first, then add. If we added first, we would get $3 \times 6 = 18$, which would mean 3 notebooks at 6 euros each.

1 IN PAIRS Luke worked out $2 + 3 \times 4 = 20$, and Iva got $2 + 3 \times 4 = 14$. Who is right? Draw dots or a bar model that shows it.

2 ON YOUR OWN Work out. Watch the order.

$20 - 3 \times 5 =$ ☐

$(20 - 3) \times 5 =$ ☐

$18 \div 3 + 6 =$ ☐

$18 \div (3 + 6) =$ ☐

$4 + 6 \times 2 - 1 =$ ☐

$100 - 40 \div 4 \times 2 =$ ☐

Make up a story for the expression $20 - 4 \times 3$ and work it out.

Names (pair) _____ Date _____

Remember

Order of calculation: first what is in **brackets**, then **multiplication and division**, and last **addition and subtraction**. Operations at the same level are done in order from left to right: $100 - 40 \div 4 \times 2 = 100 - 10 \times 2 = 100 - 20 = 80$.

3 IN PAIRS Match each story to an expression and work it out. One expression is left over.

A $50 - 3 \times 12$ **B** $(50 - 12) \times 3$ **C** $3 \times (12 + 5)$ **D** $3 \times 12 + 5$

Mark has 50 euros. He buys 3 books at 12 euros each. How much does he have left?	expression: ☐	☐
3 pupils each pay 12 euros for the bus and 5 euros for a ticket. How much do they pay altogether?	expression: ☐	☐
A box has 3 rows of 12 cookies, and there are 5 more cookies on the side. How many cookies are there?	expression: ☐	☐

4 ON YOUR OWN Put in brackets so that the equation is true.

$2 + 3 \times 4 = 20$

$24 \div 4 + 2 = 4$

$10 - 4 - 2 = 8$

$5 \times 6 - 2 \times 3 = 60$

5 IN A GROUP CHALLENGE **Four fours.** Using exactly four 4s, operations and brackets, write expressions with the values 0, 1, 2, 3 and 4.

☐ $= 0$ ☐ $= 1$ ☐ $= 2$

☐ $= 3$ ☐ $= 4$

★ ON YOUR OWN **Exit card.** $6 + 4 \times 5 =$ ☐ $(6 + 4) \times 5 =$ ☐