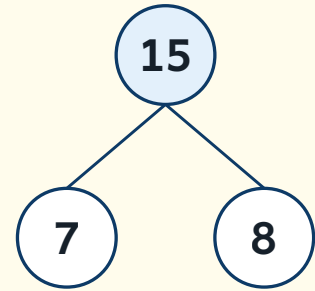


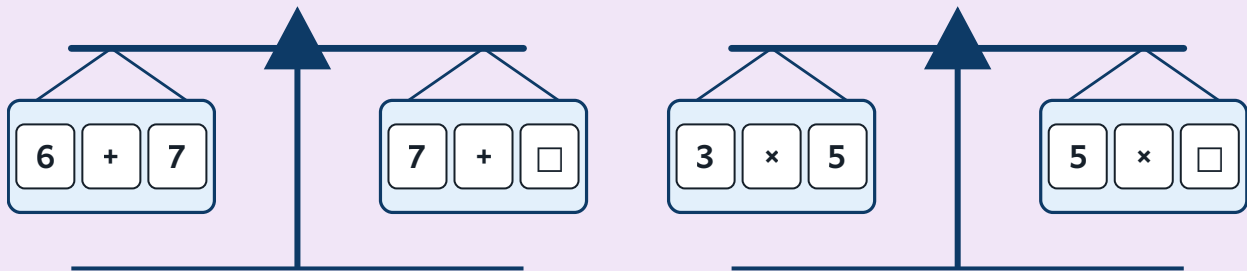
ORDER AND INVERSE WITH $7 + 8$

- 1 The bond shows $7 + 8 = 15$.
- 2 Swap the order: $8 + 7$ also equals **15**.
- 3 Subtraction undoes it: $15 - 8 = 7$, so write $7 + 8 \leftrightarrow 15 - 8$.



WARM-UP

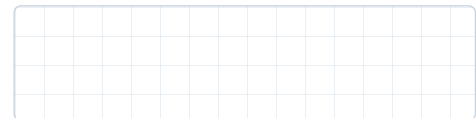
Fill each blank pan so the balance scales stay level.



1. On the first scales write $6 + 7$ in the left pan and $7 + \square$ in the right pan. Write the number that keeps the scales level.
2. On the second scales write 3×5 in the left pan and $5 \times \square$ in the right pan. Write the number that keeps the scales level.

PRACTICE

- 1 Write **8** + **5** counters in the left pan and **5** + ? counters in the right pan. What must go in the blank so both pans balance?



? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. Swapping the two numbers you add keeps the total the same, so $4 + 9$ gives the same answer as $9 + 4$.
- b. Swapping the two numbers you multiply keeps the answer the same, so 3×5 equals 5×3 .
- c. Swapping the two numbers in a subtraction keeps the answer the same, so $10 - 4$ equals $4 - 10$.
- d. Two different games sums that use the same two numbers in a different order give the same total.

REFLECT

When does knowing that order does not matter in addition or multiplication save you time?