Lesson 111

The equals sign means balance

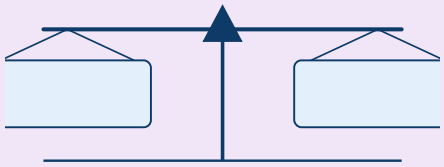
BALANCING BOTH SIDES

1. The left side is 4 + 6, which makes **10**.
2. The equals sign means the right side must also make **10**.
3. So ? + 3 = 10. 10 − 3 = **7**.

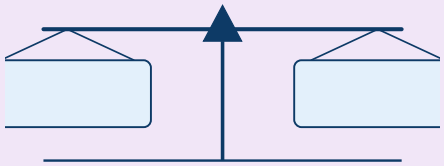
WARM-UP

Fill each empty pan so the balance beam sits level.

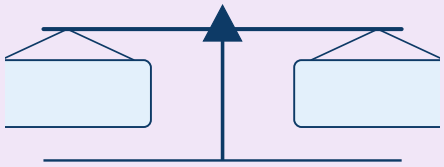
1. Left pan shows 8; write a sum on the right pan using ? + 5 that balances it.



2. Left pan shows 4 + 6; write ? + 3 on the right pan so the beam is level.



3. Left pan shows 6 + 4; write 3 + ? on the right pan so both pans are equal.



PRACTICE

1 In a beanbag game the left pan of the scales shows **8** points. The right pan shows a hidden throw added to **5**. What throw keeps the beam level?

ALWAYS, SOMETIMES, NEVER

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

a. 7 = 5 + 2 is a true number sentence. ☐

b. A number sentence with an equals sign has both sides worth the same. ☐

c. The sum can be written on the right of the equals sign, like 7 = 4 + 3. ☐

d. A number sentence with an equals sign is true. ☐

REFLECT Does thinking of equals as balance change how you read a number sentence?

ALGEBRA