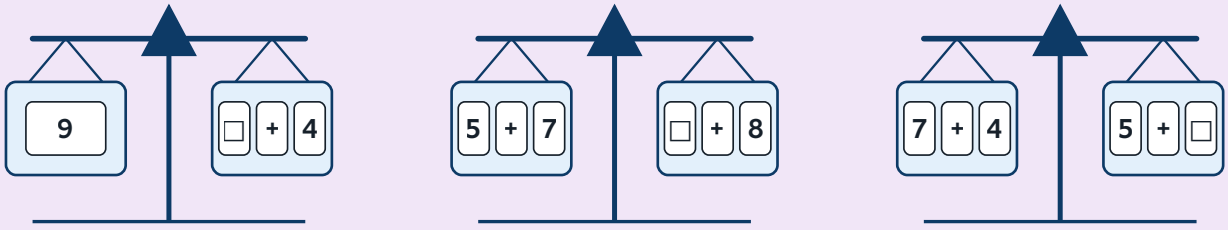
Lesson 111 The equals sign means balance

BALANCING BOTH SIDES

1. Look at 4 + 6 = ? + 3. 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

Each beam is level. Fill the empty pan so both sides are worth the same.



1. Write the missing number on the first beam.
2. Write the missing number on the second beam.
3. Write the missing number on the third beam.

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?
2. Two friends playing snap write **7** = **5** + **2** on the board. Is this number sentence true or false?
3. A player in a card game claims **4** + **3** = **8**. Check whether this number sentence is true or false.
4. In a marble game one pan shows **8** + **5** marbles and the other shows **4** plus a hidden bag. How many marbles are in the hidden bag to make it balance?

ALWAYS, SOMETIMES, NEVER

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

a. 12 = 7 + 5 is a true number sentence. ☐

b. The equals sign means both sides are worth the same. ☐

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

d. Two sides that make different totals give a level beam. ☐

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

ALGEBRA