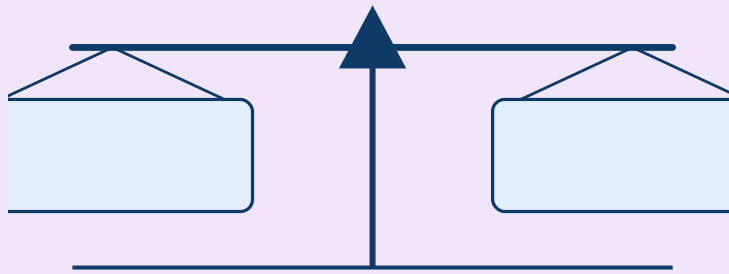


BALANCING THREE LOTS OF FOUR

- 1 Look at the repeated addition $4 + 4 + 4$.
- 2 Count how many fours there are: there are **3** groups.
- 3 Write the matching multiplication as 3×4 .
- 4 Both sides equal **12** so the expressions are equivalent.

WARM-UP

Use the balance scales so both pans hold matching expressions and hang level.



1. Place $4 + 4 + 4$ on one pan and 3×4 on the other
2. Balance $5 + 5$ against 2×5
3. Make 2×6 level with $6 + 6$

PRACTICE

- 1 You bounce a playground ball **2** times in each of **5** turns. Write the repeated addition as a multiplication.
- 2 In hopscotch you land on **3** squares four times in a row. Find the missing number of groups.
- 3 Three friends each collect **3** stickers in a playground swap. Complete the repeated addition that matches.

SPOT THE MISTAKE

Emma writes an equivalent expression for $5 + 5 + 5 + 5$:

$$5 + 5 + 5 + 5 = 5 \times 5$$

Emma is wrong. What is the correct multiplication, and why?

Explain _____ Answer

IRISH FACT Fifteen on a GAA team

A hurling or Gaelic football team fields **15 players** — the same as **3 groups of 5**, or $5 + 5 + 5$.

GAA



REFLECT Which feels shorter — repeated addition or a times sentence? Why?