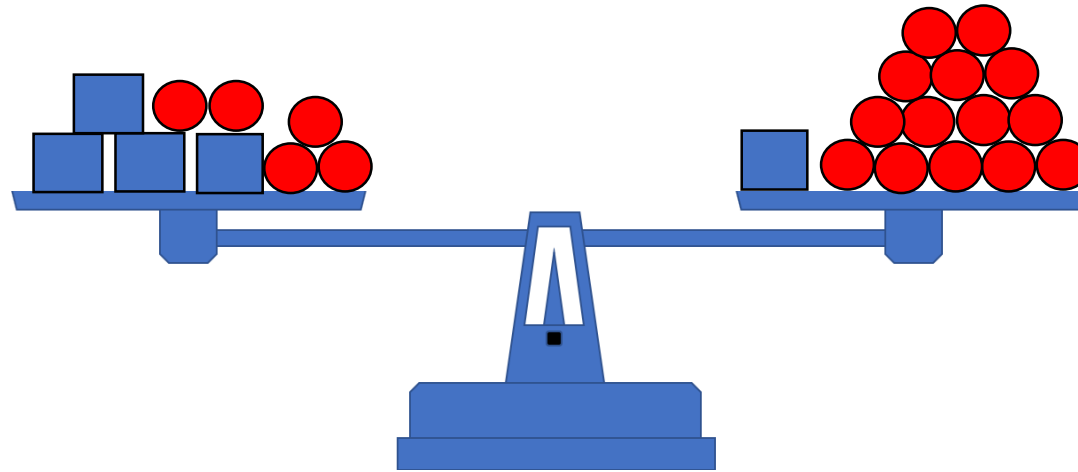
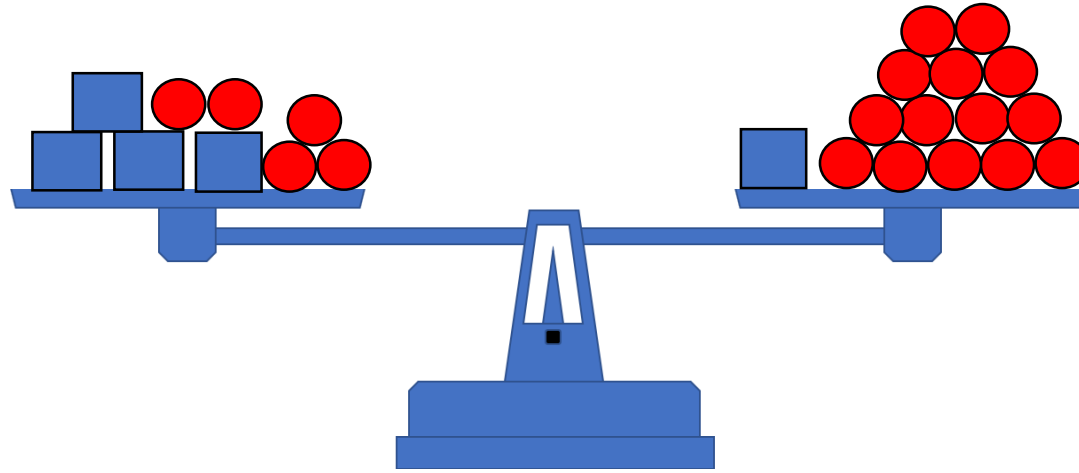


# Squares & circles pan balance



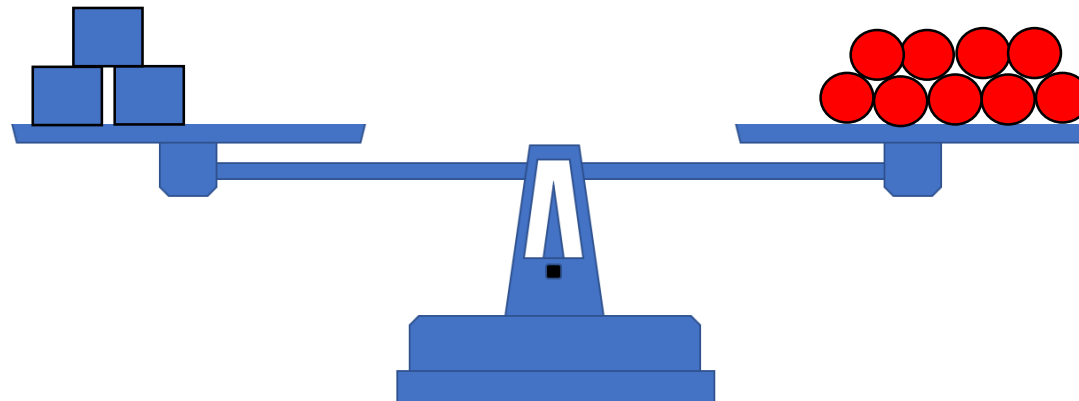
One blue square weighs the same as \_\_\_\_\_ red circles.

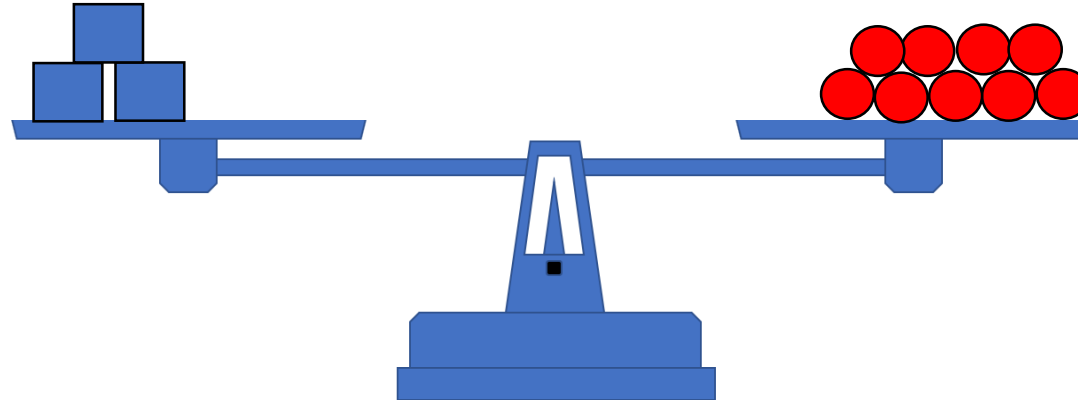


4 squares and 5 circles weigh the same as one square and fourteen circles.

$$4 \text{ squares} + 5 \text{ circles} = 1 \text{ square} + 15 \text{ circles}$$

Subtract 1 square + 5 circles from the right and left pans





We then know that 3 squares has the same mass as 9 circles.

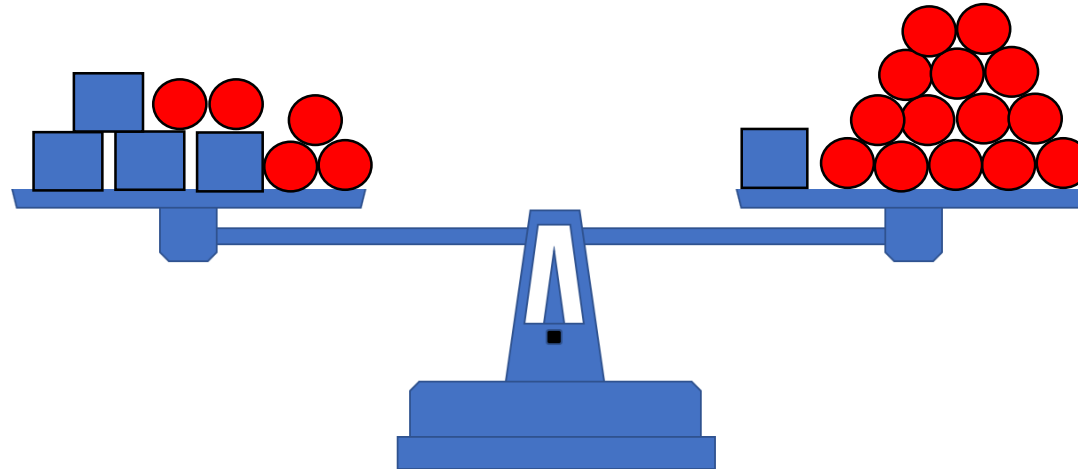
$$3 \text{ squares} = 9 \text{ circles}$$

Simplify this by dividing both sides by 3.

1 square has the same mass as 3 circles

$$1s = 3c$$

Check your answer by going back to the original image.



1 square is equal to 3 circles

$$4s + 5c = 1s + 14c$$

$$(3 \times 4) + (5 \times 1) = (3 \times 1) + (14 \times 1)$$

$$(12 + 5) = (3 + 14)$$

$$17 = 17$$