

Sharing a quantity in a given ratio

WHAT THIS LESSON TEACHES

To share a quantity in a given ratio, first add all the parts of the ratio to find the total parts. Then divide the quantity by the total parts to find the value of one part.

→ In the ratio 3:1 there are $3 + 1 = 4$ total parts.

→ Sharing 20 in 3:1 gives $20 \div 4 = 5$ for one part.

MODEL THIS ON THE BOARD

SHARING 16 IN 3:1

- ① Add the ratio parts: $3 + 1 = 4$ total parts.
- ② Divide the amount by total parts: $16 \div 4 = 4$ for one part.
- ③ Multiply to find each share: $3 \times 4 = 12$ and $1 \times 4 = 4$.

ANSWER KEY

Scaffold: visual check on the page

Q1: 21 and 7

Q2: 18 and 27

Q3: €50 and €40

Q4: 20, 30 and 10

Q5: 60, 40 and 20

a) **Always** — Adding gives the total parts needed to find one part.

b) **Always** — Each share is a multiple of one part so they sum to the total.

c) **Sometimes** — It depends on the numbers in the ratio and the total.

d) **Never** — You need the total parts to calculate the value of one part.