

SIMPLIFY LADDER

Cards B-D · same factor, matching units, reverse check.

CARD B · SAME RATIO, SMALLER NUMBERS

$4 : 6 \div \text{common factor } 2 \rightarrow \underline{\quad} : \underline{\quad}$

Reverse: $\underline{\quad} : \underline{\quad} \times 2 \rightarrow 4 : 6$

Both terms change by the SAME factor.

CARD C · ANOTHER EQUIVALENT RATIO

$8 : 12 \div \text{common factor } 4 \rightarrow \underline{\quad} : \underline{\quad}$

Actual badge count stays 20.

CARD D · CONVERT LENGTH UNITS FIRST

$150 \text{ cm} : 1 \text{ m} = 150 \text{ cm} : \underline{\quad} \text{ cm}$

Then simplify $150 : \underline{\quad} \rightarrow \underline{\quad} : \underline{\quad}$

Check with matching centimetre units.

Simplifying changes notation, not the original objects.