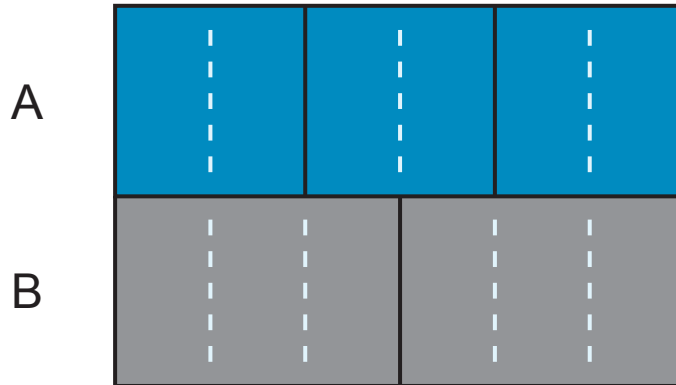


Cut Same Size

CSS Introduction



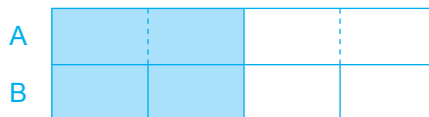
In **Cut Same Size (CSS)**, the aim is to cut models into equal parts so that quantities can be expressed directly as units against one another.

Tip: Shade the equal parts first before drawing the remaining total parts that make up the whole. Use dotted lines to cut the units into smaller equal-size units.

CSS Example

$\frac{1}{2}$ of A's cookies is equal to $\frac{2}{3}$ of B's cookies.

What fraction of the total cookies is A's cookies?



A \rightarrow 4 units

B \rightarrow 3 units

Total $\rightarrow 4 + 3 = 7$ units

Fraction (A) $\rightarrow \frac{4}{7}$

Ans: $\frac{4}{7}$

Adapted:

Score A* in Singapore Mathematics Problem Sums Level 5 (Standard Edition)

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Question 1

2 boxes of chocolate cookies cost as much as 5 boxes of strawberry cookies. 4 boxes of chocolate cookies and 4 boxes of strawberry cookies cost \$22.40. How much did 1 box of strawberry cookies cost?

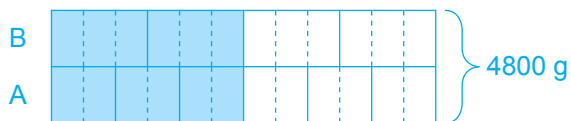
Ans: _____

Question 2

A spent $\frac{3}{4}$ of her money on 3 boxes of chocolate cookies. B spent $\frac{4}{9}$ of her money on 2 boxes of strawberry cookies. A and B had an equal amount of money left. A box of chocolate cookies cost \$18 more than a box of strawberry cookies. How much money did A and B have at first?

Ans: _____

Question 1



$24 \text{ units} \rightarrow 4800 \text{ g}$
 $1 \text{ unit} \rightarrow 4800 \div 24 = 200 \text{ g}$
 $3 \text{ units} \rightarrow 3 \times 200 = 600 \text{ g}$
 $1B \rightarrow 600 \text{ g}$

Ans: 600 g

Question 2



$21 \text{ units} \rightarrow 840 \text{ cookies}$
 $1 \text{ unit} \rightarrow 840 \div 21 = 40 \text{ cookies}$
 $3 \text{ units} \rightarrow 3 \times 40 = 120 \text{ cookies}$
 $\text{More} \rightarrow 120 \text{ cookies}$

Ans: 120 more cookies