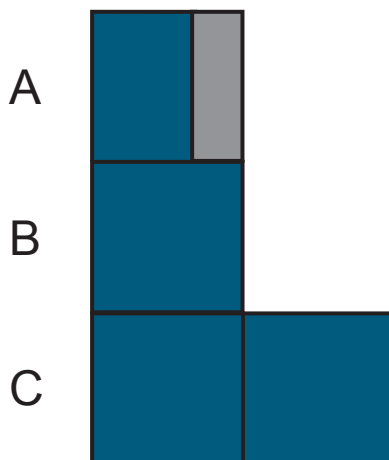


Fill The Tail

FTT Introduction

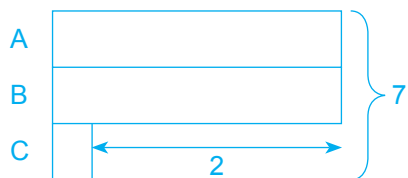


In **Fill The Tail (FTT)**, the aim is to make equal units by filling (i.e. adding) the 'tail' (extra part).

Tip: Draw the incomplete unit as narrow as possible so that it will not be too broad to be confused as a unit. As such, **models of these types may not be drawn exactly to size or proportion.**

FTT Example

A, B and C have 7 cookies.
A has the same number of cookies as B.
C has 2 fewer cookies than B.
How many cookies does A have?



$$3 \text{ units} \rightarrow 7 + 2 = 9 \text{ cookies}$$

$$1 \text{ unit} \rightarrow 9 \div 3 = 3 \text{ cookies}$$

$$A \rightarrow 3 \text{ cookies}$$

Ans: 3 cookies

Adapted:

Score A* in Singapore Mathematics Problem Sums Level 6 (Standard Edition)

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Question 1

A and B had an equal number of cookies. If A ate $\frac{1}{3}$ of her cookies and B ate 36 cookies, there would be 84 cookies left. How many cookies were there?

Ans: _____

Question 2

C had 320 more cookies than B. A had twice as many cookies as C. A, B and C had 1540 cookies. How many cookies did B have?

Ans: _____

Question 1



5 units $\rightarrow 84 + 36 = 120$ cookies

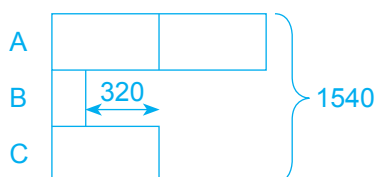
1 unit $\rightarrow 120 \div 5 = 24$ cookies

6 units $\rightarrow 6 \times 24 = 144$ cookies

At first $\rightarrow 144$ cookies

Ans: 144 cookies

Question 2



4 units $\rightarrow 1540 + 320 = 1860$ cookies

1 unit $\rightarrow 1860 \div 4 = 465$ cookies

B $\rightarrow 465 - 320 = 145$ cookies

Ans: 145 cookies