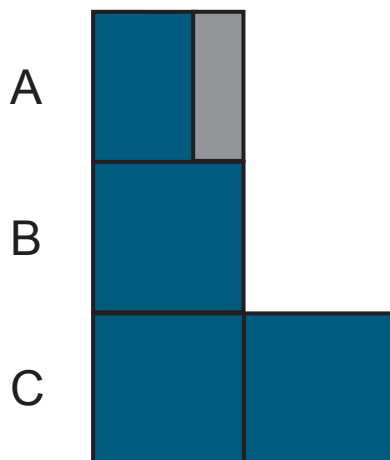


# Fill The Tail

## FTT Introduction

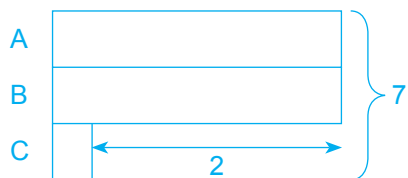


In **Fill The Tail (FTT)**, the aim is to make equal units by filling (i.e. adding) the 'tail' (extra part).

**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

**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

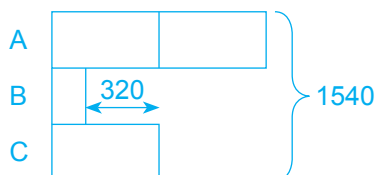
1 unit  $\rightarrow 120 \div 5 = 24$  cookies

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