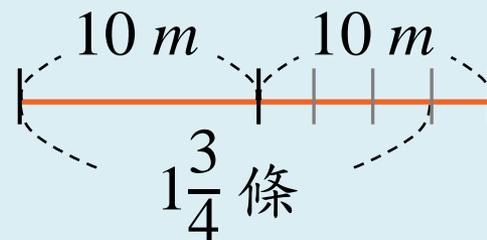


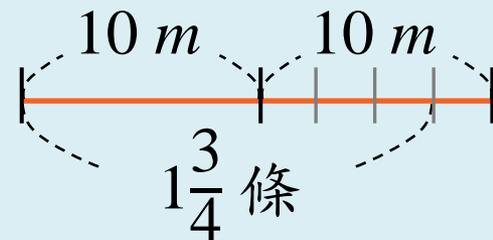
## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



## 整數乘以帶分數

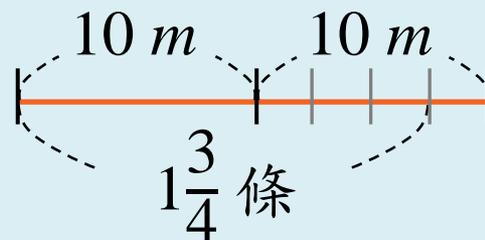
一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



$$10 \times 1\frac{3}{4} =$$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



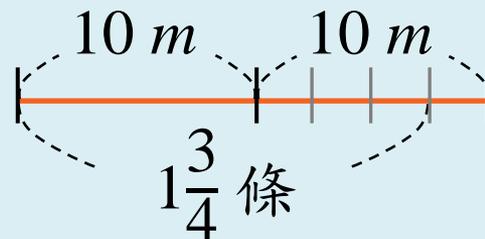
娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} =$$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

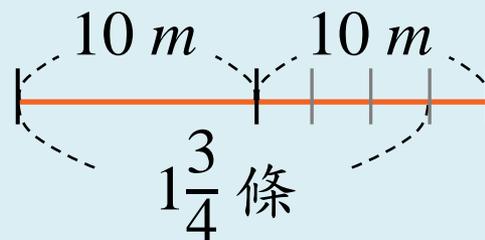
把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} =$$

$$10 \times 1$$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

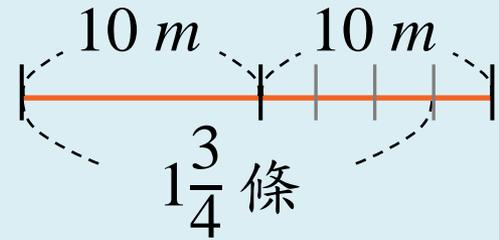
把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10$$

$10 \times 1$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

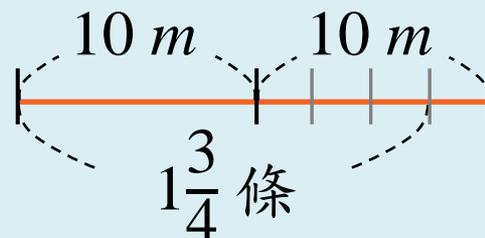
把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10$$

The diagram illustrates the distributive property of multiplication over addition. A blue bracket above the equation  $10 \times 1\frac{3}{4}$  spans from the 10 to the  $\frac{3}{4}$  part of the mixed number. Below the equation, a red bracket spans from the 10 to the 1 part of the mixed number, with the text  $10 \times 1$  written below it. An arrow points from the  $\frac{3}{4}$  part of the mixed number down to the 10 in the equation.

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

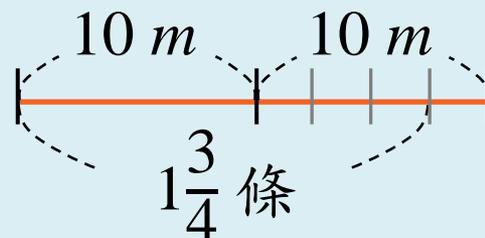
$$10 \times 1\frac{3}{4} = 10\frac{30}{4}$$

$10 \times \frac{3}{4}$   
┌──────────┴──────────┐  
↓

└──────────┬──────────┘  
↑  
 $10 \times 1$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

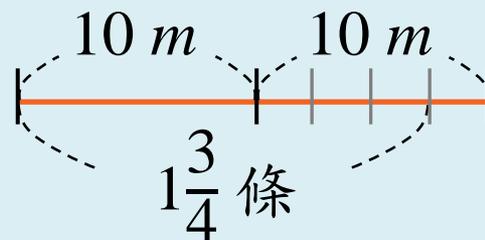
把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10\frac{30}{4} = 15$$

The diagram illustrates the calculation of  $10 \times 1\frac{3}{4}$ . It shows the multiplication of 10 by the whole number part (1) and the fraction part ( $\frac{3}{4}$ ) separately. A red bracket below the 10 in  $10 \times 1$  is labeled  $10 \times 1$ . A blue bracket above the  $10 \times \frac{3}{4}$  part is labeled  $10 \times \frac{3}{4}$ . The result  $10\frac{30}{4}$  is shown with a blue arrow pointing from the 30 to the 15, and a blue arrow pointing from the 4 to the 2 in the denominator. The final result is 15.

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

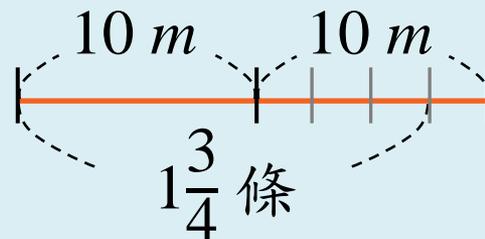
把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10 \times 1 + 10 \times \frac{3}{4} = 10 + \frac{30}{4} = 10 + \frac{15}{2} = 17\frac{1}{2}$$

The diagram shows the calculation steps with annotations. A blue bracket above the equation spans from the first '10' to the '30' in the fraction, with an arrow pointing to the '30'. A red bracket below the equation spans from the first '10' to the '30' in the fraction, with an arrow pointing to the '30'. The '30' and '4' in the fraction are crossed out with a blue diagonal line, and '15' and '2' are written next to them. The final result is  $17\frac{1}{2}$ .

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10 \times 1 + 10 \times \frac{3}{4} = 10 + \frac{30}{4} = 10 + \frac{15}{2} = 17\frac{1}{2}$$

The diagram illustrates the distributive property of multiplication over addition. A blue bracket above the equation groups  $10 \times 1$  and  $10 \times \frac{3}{4}$ . A red bracket below the equation groups  $10 \times 1$  and  $10 \times \frac{3}{4}$ . The final result is  $17\frac{1}{2}$ .

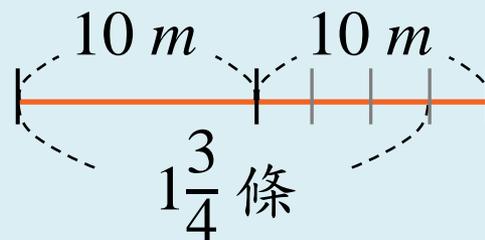
小凱的做法：

先把  $1\frac{3}{4}$  換成假分數

$$10 \times 1\frac{3}{4} =$$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10 \times 1 + 10 \times \frac{3}{4} = 10 + \frac{30}{4} = 10 + \frac{15}{2} = 17\frac{1}{2}$$

$10 \times 1$

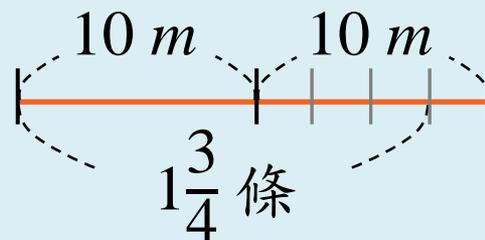
小凱的做法：

先把  $1\frac{3}{4}$  換成假分數

$$10 \times 1\frac{3}{4} = 10 \times \frac{7}{4}$$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10 \times 1 + 10 \times \frac{3}{4} = 10 + \frac{30}{4} = 10 + \frac{15}{2} = 17\frac{1}{2}$$

$10 \times 1$

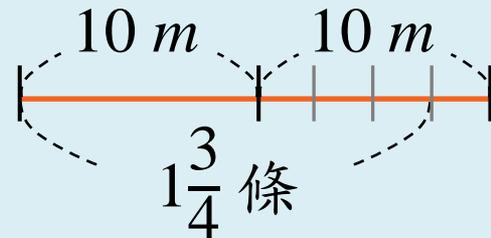
小凱的做法：

先把  $1\frac{3}{4}$  換成假分數

$$10 \times 1\frac{3}{4} = 10 \times \frac{7}{4} = \frac{10 \times 7}{4}$$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10 \times 1 + 10 \times \frac{3}{4} = 10 + \frac{30}{4} = 10 + \frac{15}{2} = 17\frac{1}{2}$$

The diagram shows the calculation steps with arrows: a blue arrow from  $10 \times \frac{3}{4}$  points to  $\frac{30}{4}$ , and a red arrow from  $10 \times 1$  points to the  $10$  in the sum.

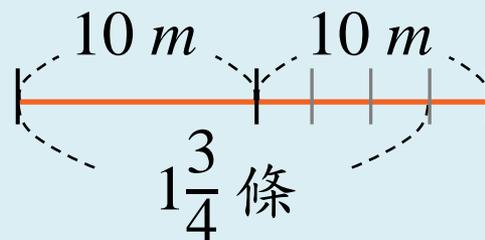
小凱的做法：

先把  $1\frac{3}{4}$  換成假分數

$$10 \times 1\frac{3}{4} = 10 \times \frac{7}{4} = \frac{10 \times 7}{4} = \frac{70}{4}$$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10 \times 1 + 10 \times \frac{3}{4} = 10 + \frac{30}{4} = 10 + \frac{15}{2} = 17\frac{1}{2}$$

The diagram shows the calculation process for娟娟's method. It starts with  $10 \times 1\frac{3}{4}$ . A blue bracket above the expression indicates that 10 is multiplied by 1 and 10 is multiplied by  $\frac{3}{4}$ . The result is shown as  $10 + \frac{30}{4}$ . A red bracket below the 10 and  $\frac{30}{4}$  indicates that 10 is multiplied by 1. The fraction  $\frac{30}{4}$  is simplified to  $\frac{15}{2}$  by canceling a 2 from the numerator and denominator. The final result is  $17\frac{1}{2}$ .

小凱的做法：

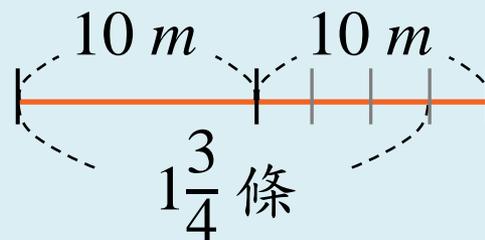
先把  $1\frac{3}{4}$  換成假分數

$$10 \times 1\frac{3}{4} = 10 \times \frac{7}{4} = \frac{10 \times 7}{4} = \frac{70}{4} = \frac{35}{2}$$

The diagram shows the calculation process for小凱's method. It starts with  $10 \times 1\frac{3}{4}$ . The mixed number  $1\frac{3}{4}$  is converted to the improper fraction  $\frac{7}{4}$ . The calculation is shown as  $10 \times \frac{7}{4} = \frac{10 \times 7}{4} = \frac{70}{4}$ . The fraction  $\frac{70}{4}$  is simplified to  $\frac{35}{2}$  by canceling a 2 from the numerator and denominator.

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10 \times 1 + 10 \times \frac{3}{4} = 10 + \frac{30}{4} = 10 + \frac{15}{2} = 17\frac{1}{2}$$

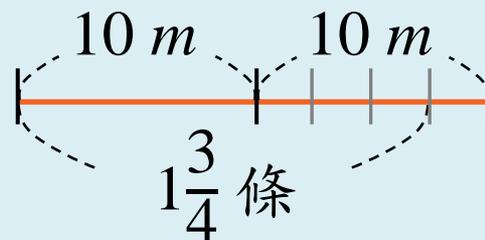
小凱的做法：

先把  $1\frac{3}{4}$  換成假分數

$$\begin{aligned} 10 \times 1\frac{3}{4} &= 10 \times \frac{7}{4} \\ &= \frac{10 \times 7}{4} \\ &= \frac{70}{4} = \frac{35}{2} \\ &= 17\frac{1}{2} \end{aligned}$$

## 整數乘以帶分數

一條繩子是 10 公尺， $1\frac{3}{4}$  條是幾公尺？



娟娟的做法：

把 10 分別乘以 1 和  $\frac{3}{4}$ 。

$$10 \times 1\frac{3}{4} = 10 \times 1 + 10 \times \frac{3}{4} = 10 + 7\frac{30}{4} = 17\frac{15}{2}$$

小凱的做法：

先把  $1\frac{3}{4}$  換成假分數

$$\begin{aligned} 10 \times 1\frac{3}{4} &= 10 \times \frac{7}{4} \\ &= \frac{10 \times 7}{4} \\ &= \frac{70}{4} \\ &= 17\frac{1}{2} \end{aligned}$$

答： $17\frac{1}{2}$  公尺