

We can organize information in a table.

Let  $x$  represent the number of students present in the class on Tuesday.

	Absent	Present
Tue:	$\frac{1}{13}x$	$x$
Wed:	$\frac{1}{13}x - 1$	$x + 1$

$$\rightarrow \frac{1}{13}x - 1 = \frac{1}{20}(x + 1)$$

$$\frac{x}{13} - 1 = \frac{x}{20} + \frac{1}{20}$$

$$\frac{x}{13} - \frac{x}{20} = 1 + \frac{1}{20}$$

$$\frac{20x}{260} - \frac{13x}{260} = \frac{20}{20} + \frac{1}{20}$$

$$\frac{7x}{260} = \frac{21}{20} \rightarrow 7x = \frac{(21)(260)}{20}$$

$$7x = (21)(13), \quad x = \frac{\overset{3}{\cancel{21}}(13)}{\underset{1}{\cancel{7}}}, \quad x = 39$$

The total number of students in class is  $\frac{1}{13}x + x = \frac{39}{13} + 39$

$$= 3 + 39$$

$$= 42 \text{ students.}$$