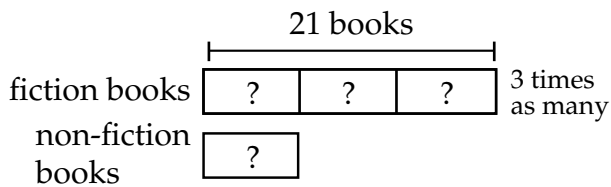


Multiplication and Division Comparison Problems

You can use drawings and a multiplication or division equation to solve comparison problems.

Samantha has 3 times as many fiction books in her collection as non-fiction books. She has 21 fiction books. How many non-fiction books does she have?

What You Think:



What You Write:

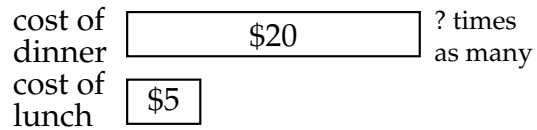
$\begin{matrix} ? \\ \uparrow \\ \text{How many} \\ \text{non-fiction} \\ \text{books?} \end{matrix} \times \begin{matrix} 3 \\ \uparrow \\ \text{3 times} \\ \text{as many} \end{matrix} = \begin{matrix} 21 \\ \uparrow \\ \text{Number} \\ \text{of fiction} \\ \text{books} \end{matrix}$

$7 \times 3 = 21$

Samantha has 7 non-fiction books.

Diego paid \$20 for dinner and \$5 for his lunch. How many times as much did his dinner cost as his lunch?

What You Think:



What You Write:

$\begin{matrix} 20 \\ \uparrow \\ \text{Cost of} \\ \text{dinner} \end{matrix} \div \begin{matrix} 5 \\ \uparrow \\ \text{Cost of} \\ \text{lunch} \end{matrix} = \begin{matrix} ? \\ \uparrow \\ \text{How many} \\ \text{times as} \\ \text{much?} \end{matrix}$

$20 \div 5 = 4$

Diego's dinner cost 4 times as much as his lunch.

Draw a picture and write an equation to solve each problem.

- Teddy's shirt has 10 brown buttons and 2 orange buttons. How many times as many brown buttons does his shirt have as orange buttons?

- Alyssa is 12 years old. She is 2 times as old as her brother Jack. How old is Jack?
