

Explore – Mini-Lesson

Before we solve Zack's problem, let's look at some simpler problems to get ready. Read this problem.

Example 1) The ratio of boys to girls in a class is 2 to 3.

1. If there are 4 boys in the class, how many girls are there?

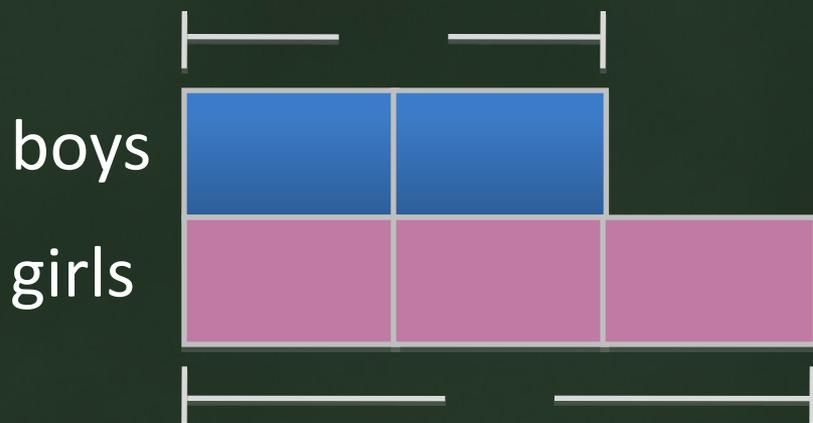
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New Tool: Tape Diagram

We can use a **tape diagram** to solve ratio math problems.

Example 1) The ratio of boys to girls in a class is 2 to 3.



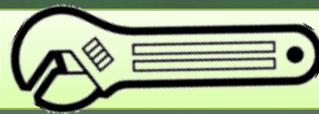
Each box represents a number in the original ratio.

1. If there are 4 boys in the class, how many girls are there?



Now let's look at the question.

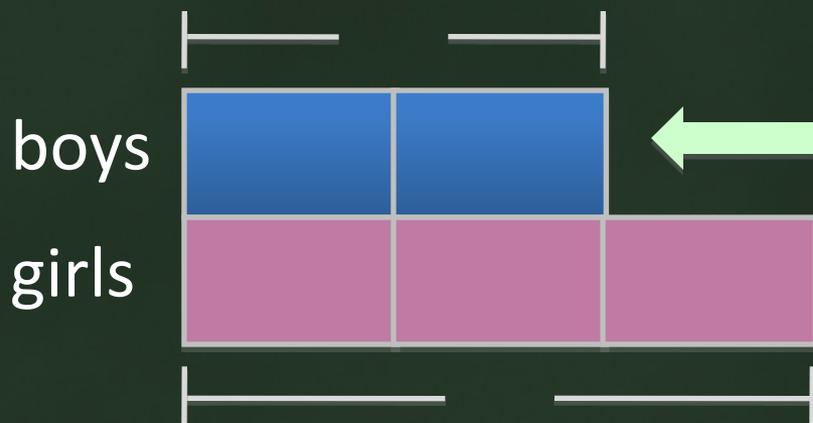
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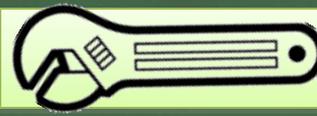
Example 1) The ratio of boys to girls in a class is 2 to 3.



If this tape shows 4 boys then...

1. If there are 4 boys in the class, how many girls are there?

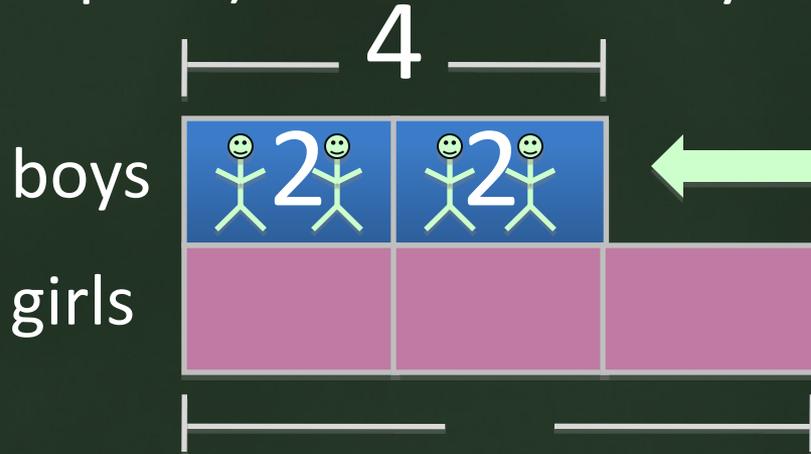
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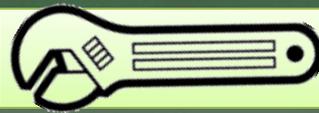


How many students are in one box?

This tape is 4 boys. So we put 4 above the tape. 2

1. If there are 4 boys in the class, how many girls are there?

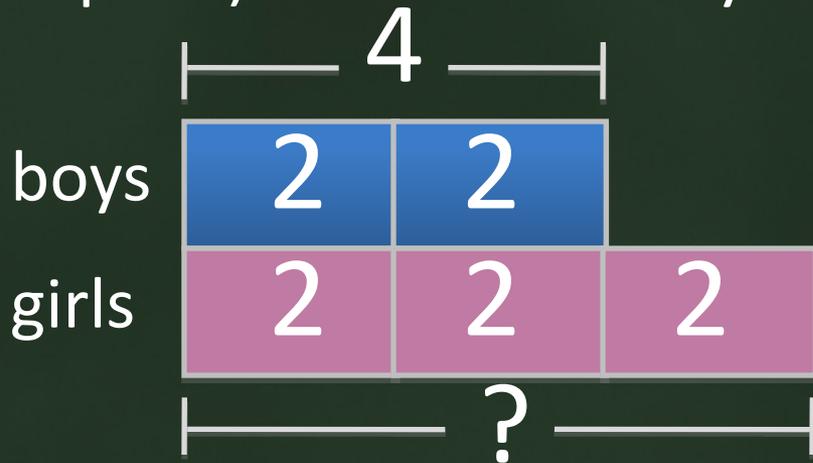
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Important Rule:

The number in each box must be the same for every tape.

We don't yet know the number of girls so we put a ? for the length of that tape.

1. If there are 4 boys in the class, how many girls are there?

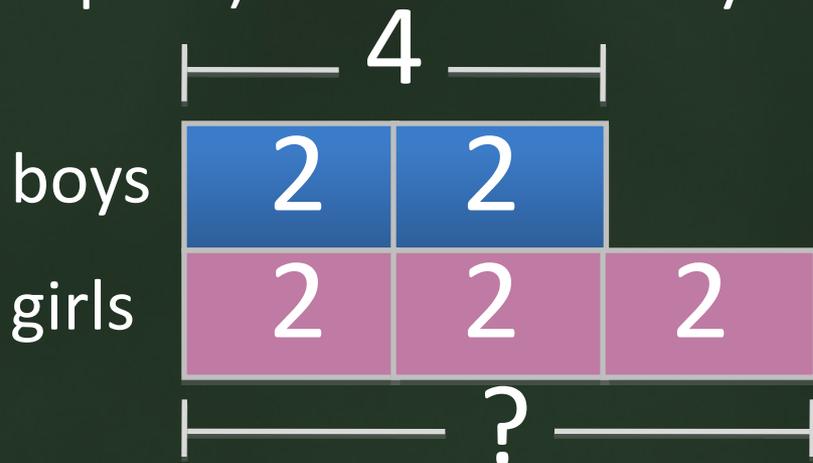
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Now we can answer the question.

1. If there are 4 boys in the class, how many girls are there?

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