

# Tape Diagrams

I will be able to use tape diagrams to solve problems involving ratios.

Lesson objectives
Teachers' notes

Nov 4-10:28 AM

Subject: Type text here

Topic: Type text here

Grade(s): Type text here

Prior knowledge: Type text here

Cross-curricular link(s): Type text here

Lesson notes:

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## What is a tape diagram?

A tape diagram is a drawing that looks like a segment of tape, used to illustrate number relationships. It is also known as a strip diagram, bar model, and length model.

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## Example

games won : games lost  
3:2

games won			
3			
—			
2			
games lost			

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**Word problem example**

Crestdale basketball team's win to loss ratio was 3:2. If they won 15 games, how many did they lose? (missing quantity)

$\frac{3}{2}$   
 games won / games lost

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**Word problem example**

Crestdale basketball team's win to loss ratio was 3:2. If they played 25 games, how many did they win and how many did they lose? (missing quantities)

$\frac{3}{2}$   
 games won / games lost

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**Word problem example**

Crestdale basketball team's win to loss ratio was 3:2. If they lost 10 games, how many more games did they win? (Find total or difference)

$\frac{3}{2}$   
 games won / games lost

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**Word problem example**

Crestdale basketball team's win to loss ratio was 3:2. If they played 35 games, how many more games did they win than they lost? (Use the total or difference to find a quantity)



$\frac{3}{2}$   
 games won / games lost


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**Word problem example**

Jill spends 5 out of 6 dollars she earns on Itunes. She saves the remainder of the money. Last month, Jill spent 55 dollars on Itunes. How many fewer dollars did she save??

(Part:total ratio)

Itunes		<input type="checkbox"/>
$\frac{5}{1}$		
savings		





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**Guided Practice**

Draw the picture based on the given ratio.

LABEL each part of the picture with the categories/ numbers given.

Fill in with numbers given in the problem as you solve the problem.



Answer the question or questions, in a complete sentence, that the problem is asking you to find.




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**Guided Practice**

1.) The ratio of cats to dogs was 2:3. If there are 10 cats, how many dogs? How many total animals?





<input type="checkbox"/>




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**Guided Practice**

2.)The ratio of boys to girls was 3:4. If there are 16 girls, how many boys? Total? Difference?




<input type="checkbox"/>




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 Guided Practice


3.) For every 2 horses there are 5 cows. If there are 49 animals, how many horses? Cows?



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 Guided Practice

4.) The ratio of boys to girls is 3:5. If there are 4 more boys than girls, how many of each? How many total?



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