<u>Discussion Problems</u> Step 3: Introducing Line Graphs

National Curriculum Objectives:

Mathematics Year 4: (4S1) Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs

Mathematics Year 4: (4S2) Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More Year 4 Statistics resources.

Did you like this resource? Don't forget to review it on our website.



Introducing Line Graphs

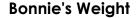
1. Katie is trying to put some data about her new dog into a line graph.

Katie says,



When Bonnie was born in January, she weighed less than 1kg but her weight doubled in February. In June, she weighed less than 15kg but more than 12.5kg. She lost weight in April because she was ill and weighed less than she did in March. She was at her heaviest in May.

Show how this information can be used to plot Bonnie's data on a line graph below.







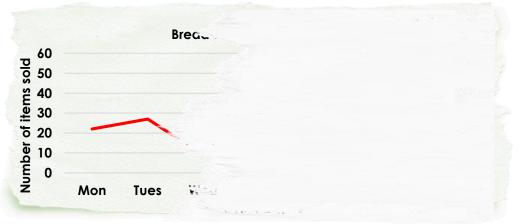
2. Eli the baker needs your help! He plotted the sales for his baked goods over one week on a line graph, but he has torn it by mistake!

He says,

I sold more loaves on Friday than I did on Monday. It was even busier on Saturday! On Thursday, I sold between 32 and 37 items. The bakery was closed on one of the days. Wednesday was the worst day of the week for sales!



Explore what the line graph could have looked like.



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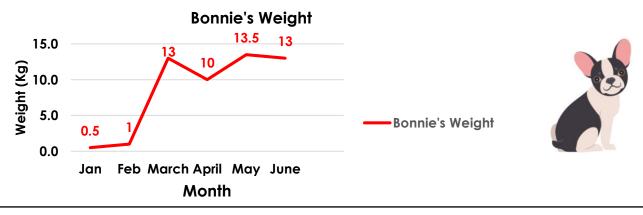
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