

Discussion Problems

Step 2: Halving a Quantity

National Curriculum Objectives:

Mathematics Year 1: (1F1a) [Recognise, find and name a half as one of two equal parts of an object, shape or quantity](#)

Mathematics Year 1: (1M1) [Compare, describe and solve practical problems for lengths and heights \[for example, long/short, longer/shorter, tall/short, double/half\]](#)

About this resource:

As this resource is aimed at Year 1, we recommend that an adult reads the problem to children who cannot yet access it for themselves.

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.

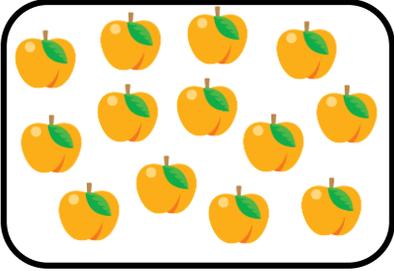
More [Year 1 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

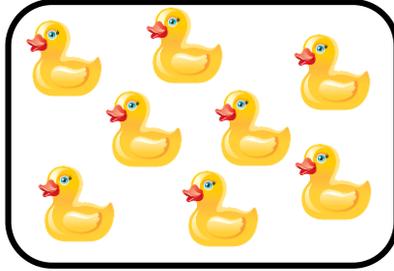
Halving a Quantity

1. Zoe needs to find half of the quantities below. Investigate which groups can be halved.

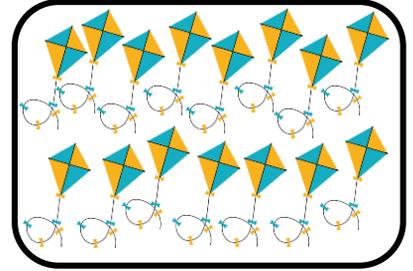
a



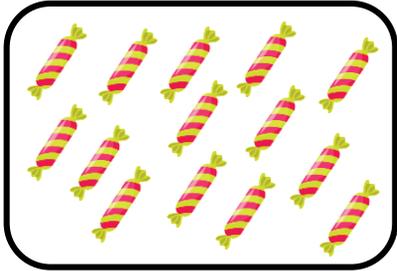
b



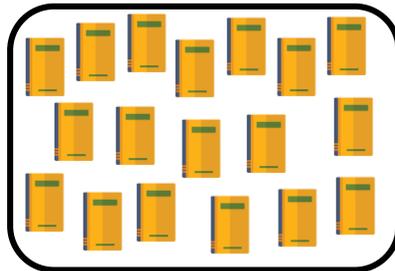
c



d



e



DP

2. Matthias thinks he has arranged his loop cards to match the words to the correct image.

Half of 16	
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Half of 12	
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Half of 4	
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Half of 8

	Half of 14
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	Half of 10
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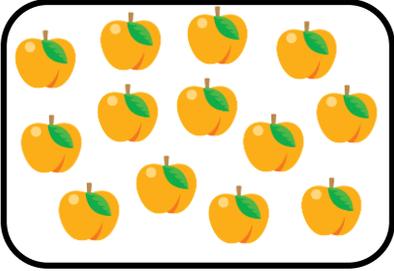
Has he arranged them correctly? Prove it!

DP

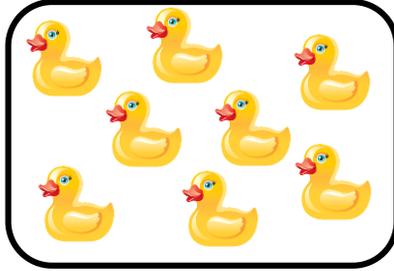
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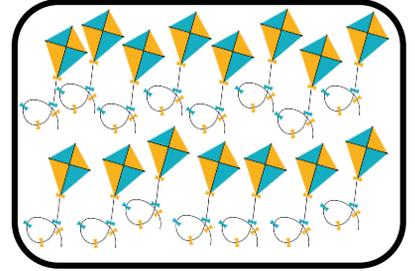
a



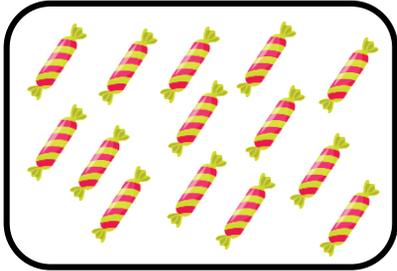
b



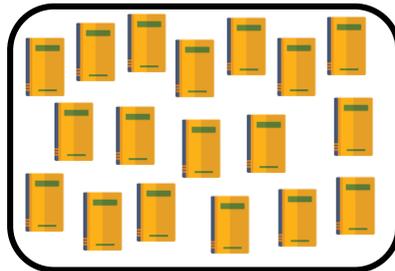
c



d



e



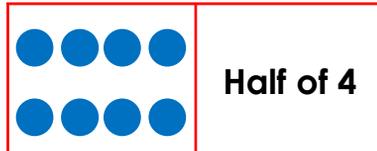
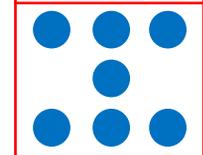
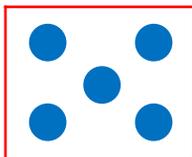
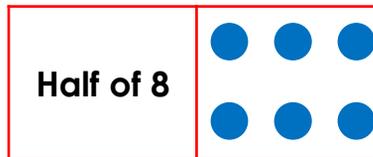
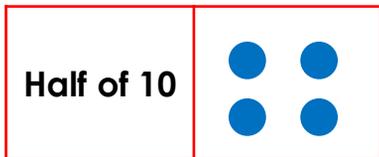
Only b, d and e can be halved. Groups a and c can not be halved equally.

DP

2. Matthias thinks he has arranged his loop cards to match the words to the correct image.

Has he arranged them correctly? Prove it!

Matthias has not arranged them correctly. Accept any answer which correctly orders the loop cards.



DP