

Discussion Problems

Step 19: Fraction of an Amount

National Curriculum Objectives:

Mathematics Year 5: (5C8c) [Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates](#)

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 5 Fractions](#) resources.

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

Fraction of an Amount

1. Lacey, Jai and Anabia are sharing a jar of sweets. They each take a different fraction of sweets and there are no sweets left over.

I have a non-unit fraction in its simplest form with an even numerator.



Lacey



Jai

I have a non-unit fraction in its simplest form.



Anabia

I have a unit fraction and the fewest sweets.



Explore the possible fraction of the sweets they each could have taken.

DP

2. James and his sister are opening a stall at the local food festival. They are given a budget of £98. Their mum wants them to spend as much of the budget as possible.

Explore the different amounts of the budget they could have spent.

Budget £98		of £98 =	New Total
		Table Hire	Posters
Final Total 		of =	New Total
		Food	

Odd denominator

A fraction less than a whole

Unit fraction

DP

Fraction of an Amount

1. Lacey, Jai and Anabia are sharing a jar of sweets. They each take a different fraction of sweets and there are no sweets left over.

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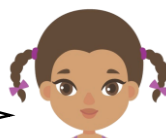


Lacey



Jai

I have a non-unit fraction in its simplest form.



Anabia

I have a unit fraction and the fewest sweets.



Explore the possible fraction of the sweets they each could have taken.

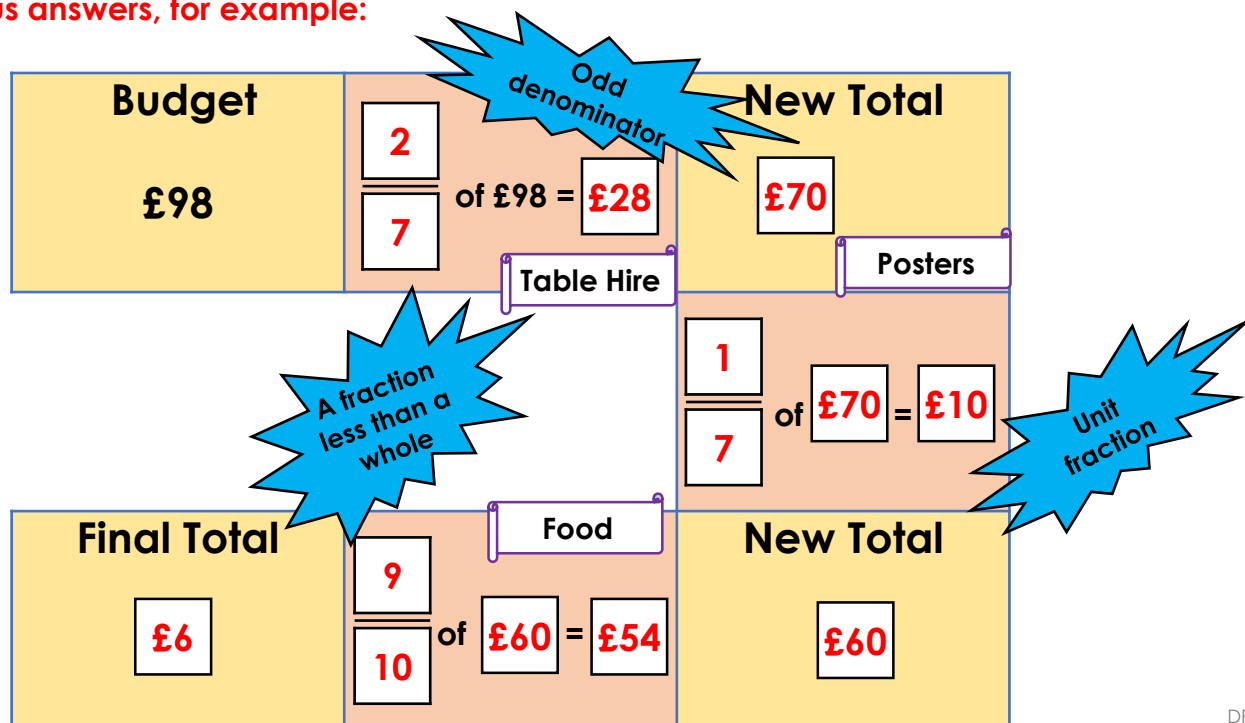
Various answers, for example: Lacey = $\frac{2}{3}$ (48), Jai = $\frac{5}{18}$ (20), Anabia = $\frac{1}{18}$ (4)

DP

2. James and his sister are opening a stall at the local food festival. They are given a budget of £98. Their mum wants them to spend as much of the budget as possible.

Explore the different amounts of the budget they could have spent.

Various answers, for example:



DP