Discussion Problems
Step 10: Find Pairs of Values 2

National Curriculum Objectives:

Mathematics Year 6: (6A5) Enumerate possibilities of combinations of two variables

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.

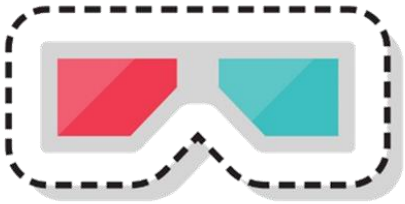
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Find Pairs of Values 2

1. Flynn wants to buy some stickers. He wants to spend £21.00 exactly and wants at least one of each.





d = £1.25 s = 50p

Explore the different combinations of stickers he could buy and write it as an equation.

DP

2. The table below shows how much money Charlie and his brother earn from doing a different chore each week. They want to work together to earn as close to £7.50 in a week as they can. They can only do one chore each, but they can do it more than once.

Chore	Money earned per time
Take the bin out (b)	£1.30
Wash the car (c)	£1.80
Walk the dog (d)	90p
Empty the dishwasher (e)	60p
Iron the clothes (i)	£1.50
Polish the cutlery (p)	£1.10
Vacuum (v)	75p
Wash up (w)	50p

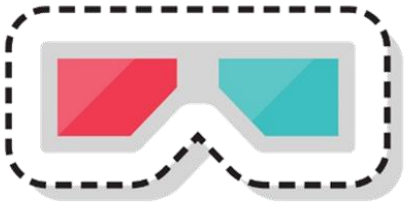
Investigate the different chores they could do to earn the required amount and write the equations for them.

DP

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Find Pairs of Values 2

1. Flynn wants to buy some stickers. He wants to spend £21.00 exactly and wants at least one of each.





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Explore the different combinations of stickers he could buy and write it as an equation.

Various answers, for example: $8d + 22s$ = £21.00

DP

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Vacuum (v)	75p
Wash up (w)	50p

Investigate the different chores they could do to earn the required amount and write the equations for them.

Various answers, for example: $8e + 3d$ = £7.50

DP

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