Unit 21. Combinations of Coins

National Curriculum Requirement

Find different combinations of coins that equal the same amounts of money

Notes

An exercise that helps to introduce the idea of combinations and at the same time, provides practice in adding money. Pupils can that simply find a combination of different coins that gives the required total amount. but in some cases, pupils might be challenged to find all the possible combinations for a total and use a systematic method - i.e use only 1p coins then 1 p and 2p, etc.

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Totals 1

Try to find three different ways in which the total amounts of money could be made using 1p, 2p, 5p, 10p coins.

The first one has been done for you to give you the idea.

Make a total of 7p

i. 2p + 5p = 7p

ii. 1p + 1p + 1p + 1p + 1p + 2p = 7p

iii. 2p + 2p + 2p + 1p = 7p

Make a total of 10p

i.

ii.

iii.

Make a total of 15p

i.

ii.

iii.

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Make a total of 12p

i.

ii.

iii.

Make a total of 20p

i.

ii.

iii.

Make a total of 25p

i.

ii.

iii.

Make a total of 17p

i.

ii.

iii.

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Totals 2

Try to find three different ways in which the total amounts of money could be made using 10p, 20p, and 50p coins.

The first one has been done for you to give you the idea.

Make a total of 60p

i. 10p + 50p = 60p

ii. 10p + 10p + 10p + 10p + 20p = 60p

iii. 20p + 20p + 20p = 60p

Make a total of 50p

i.

ii.

iii.

Make a total of 70p

i.

ii.

iii.

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Make a total of 80p

i.

ii.

iii.

Make a total of 90p

i.

ii.

iii.

Make a total of £1

i.

ii.

iii.

Make a total of £1.50

i.

ii.

iii.

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Totals 3

Try to find three different ways in which the total amounts of money could be made using 10p, 20p and 50p coins.

The first one has been done for you to give you the idea.

Make a total of 70p

i. 20p + 50p = 70p

ii. 10p + 10p + 50p = 70p

iii. 10p + 20p + 20p + 20p = 70p

Make a total of 60p

i.

ii.

iii.

Make a total of 80p

i.

ii.

iii.

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Make a total of 90p

i.

ii.

iii.

Make a total of £1

i.

ii.

iii.

Make a total of £1.20

i.

ii.

iii.

Make a total of £1.50

i.

ii.

iii.

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