YEAR 4 MATHS – THURSDAY

In this lesson, you will be learning about calculating using various amounts of money, using knowledge of money to tackle a problem and then using trial and error to collect ideas. You will be using addition and subtraction and also keeping a running total. You will be using a set of given criteria to work towards a solution to a problem.

To Start

Match the equivalent fractions.

$\frac{1}{2}$	$\frac{9}{12}$	$\frac{2}{5}$	$\frac{2}{10}$	$\frac{3}{6}$
$\frac{4}{10}$	$\frac{2}{8}$	$\frac{1}{5}$	$\frac{1}{4}$	$\frac{3}{4}$

1

Moving on

I have 8 coins and 3 bags. How many ways can I split the coins so that each bag has at least 1 coin in it?

Bag A	Bag B	Bag C	Total coins

2

Main Task

**Louise had 15 pennies, which she divided between four bags.
She could then pay any sum of money from 1p to 15p without opening any of the bags.
How many pennies did Louise put in each bag?**

Bag A	Bag B	Bag C	Bag D

p	✔	p	✔	p	✔	p	✔	p	✔
1p		2p		3p		4p		5p	
6p		7p		8p		9p		10p	
11p		12p		13p		14p		15p	

Challenge - investigate

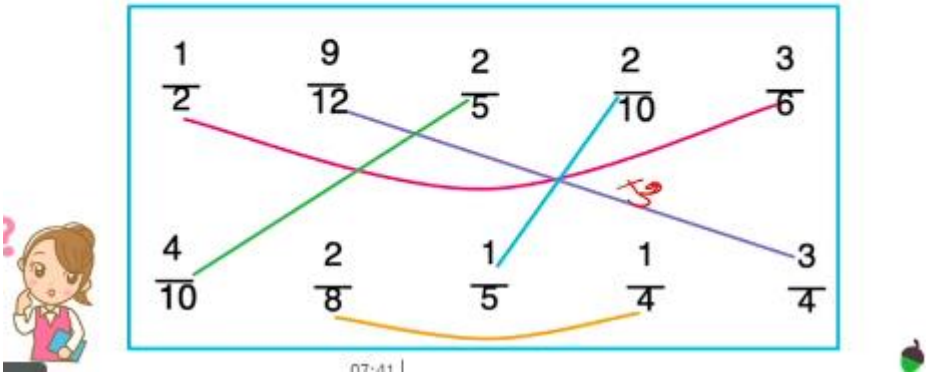
If she only had 3 bags, what is the maximum amount that she could make, including all the amounts up to that amount?

What amount would you need in a fifth bag, to be able to make as many amounts as possible over 15p?

ANSWERS

To Start

Match the equivalent fractions.



Moving on

I have 8 coins and 3 bags. How many ways can I split the coins so that each bag has at least 1 coin in it? No bags will have the same number of coins.

Bag A	Bag B	Bag C	Total coins
1	2	5	8
1	3	4	8
1	4	3	8
1	5	2	8
2	1	5	8

Can you find any more?
Did you spot the system I was using?

11:03

Main Task Answers

**Louise had 15 pennies, which she divided between four bags.
She could then pay any sum of money from 1p to 15p without opening any of the bags.
How many pennies did Louise put in each bag?**

Bag A	Bag B	Bag C	Bag D
1	2	4	8

You could have any combination of these answers

p	✓	p	✓	p	✓	p	✓	p	✓
1p	✓	2p	✓	3p	✓	4p	✓	5p	✓
6p	✓	7p	✓	8p	✓	9p	✓	10p	✓
11p	✓	12p	✓	13p	✓	14p	✓	15p	✓

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