## Maths

#### L.O. Make the same amount



Yesterday, we learned how to choose the least amount of coins to make an amount. Today we are going to think about how to use different combinations of coins to make the same amount.



#### **Key Vocabulary**



## Fluency

Count in 5s from 0 and back.

#### Use column addition to solve these calculations:

24+ 25= 67+12= 33 + 42 = 15 + 31 = 56 + 23 =



Challenge:

Write a fact family (2 additions and 2 subtractions) for 3 of the calculations. Show each one as a part whole.

#### **Anchor Task**

James says, "The bigger a coin is the more it is worth."



Is James' statement always, sometimes or never true? Explain your answer.

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Is James' statement always, sometimes or never true? Explain your answer.

James' statement is sometimes true – for example, a 2 p coin is larger than a 10 p coin, a 5 p coin and even a 20 p coin; however, a 10 p coin is bigger than a 1 p coin, and a 20 p coin is bigger than a 5 p coin.

### Recap



#### Look at the coins and notes below.



Challenge: What is the smallest number of coins you can use to make: 54p 26p £1.60

Can you describe them? What is the same? What is different?









## Explore

#### Match the amounts of money below:





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Do you notice how you can make an amount in different ways?

## Explore

# How would you make: **20p?**



Does it matter which way we make it? Talk to your grown up.

Is there more than one way?

How many ways can you think of?



#### How would you make **20p?**









These are some of the ways I found. Did you find any more? Does it matter which way we make it?

## Explore

### How would you make: **5p?** Only using copper coins



#### Which coins can't l use?



How would you make **5p** only using copper coins?



Did we all do it the same way?

How many ways did we find?



Challenge:

How many ways can you make 20p using silver coins?

### **Guided Task**

Use the coins below as many times as you wish to make the total 60 p.





**Challenge:** What's the least number of coins you could use? What's the most?

## **Problem Solving**

Make 30p three ways using the coins below. You can each coin <u>more</u> than once.



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**Possible examples:** 

10p, 10p, 10p 10p, 10p, 5p, 5p 10p, 5p, 5p, 5p, 5p 5p, 5p, 5p, 5p, 5p, 5p 30 x 1p 15 x 2p



Do you agree?

Explain why.

You can make 10p in at least 5 different ways using coins.

Do you agree? Yes

Explain why.

2p, 2p, 2p, 2p, 2p 2p, 2p, 2p, 2p, 1p, 1p 2p, 2p, 2p, 1p, 1p, 1p, 1p 

#### Make the same amount

 Draw 50p three ways using the coins below. You can use the coins more than once.



2 How many ways can you make 10p using only copper coins? List your combinations below.



3 Kat says,



If you want a little more practise, have a go at these. Remember these are optional- only do them if you want to!

#### **Independent Task**





#### Extra Challenge

If you want a little more practise, have a go at these. Remember these are optional- only do them if you want to!



#### Finding things a little tricky?

Find two sets of coins that make the same amount and stick them on the correct scales.



![](_page_23_Picture_3.jpeg)

things a go at this

![](_page_24_Picture_0.jpeg)

![](_page_25_Figure_0.jpeg)

1 Draw 50p three ways using the coins below. You can use the coins more than once.

![](_page_25_Picture_2.jpeg)

Any representation of 50p drawn 3 different ways. Some example answers are:

> 20p, 20p, 10p 20p, 10p, 10p, 10p 10p, 10p, 10p, 10p, 10p 10p, 10p, 10p, 10p, 5p, 5p

2 How many ways can you make 10p using only copper coins? List your combinations below.

![](_page_25_Picture_6.jpeg)

3 Kat says,

![](_page_25_Picture_8.jpeg)

There is only 86p. To make 87p you would

need another 1p coin.

True	False	~

Find two sets of coins that make the same amount and stick them on the correct scales.

![](_page_26_Figure_1.jpeg)