

# Diving into Mastery – Diving

## Adult Guidance with Question Prompts

Children count in steps of one, two, five and ten pence and use knowledge of counting in twos to count in twenties. They get to know the symbol 'p' for pence.

What coins can you see here?

Do they all have the same value?

What does the 'p' stand for?

Is there a 3p coin?

How many 5p coins will you need to make 25p?

How do you know?

How can you count the 5p coins efficiently?

I think we need four 10p coins to make 40p. Am I correct?

Why not?

## Count Money - Pence



Circle the correct coins to make the total.



25p



20p



6p



60p



4p

Is there a good way to count when the coins are all the same value?

# Diving into Mastery – Deeper

## Adult Guidance with Question Prompts

Children count the total value of a group of coins, including mixed coins and compare the values using the symbols  $>$ ,  $<$  and  $=$ . They reason about whether these comparisons have been made accurately. Where the coins are different, encourage children to start with the largest value and add on the smaller values.

What do the symbols  $>$ ,  $<$  and  $=$  mean?

Is it harder to count a group of coins if they are not all the same?

How can you do that efficiently?

Are these statements true or false?

How do you know?

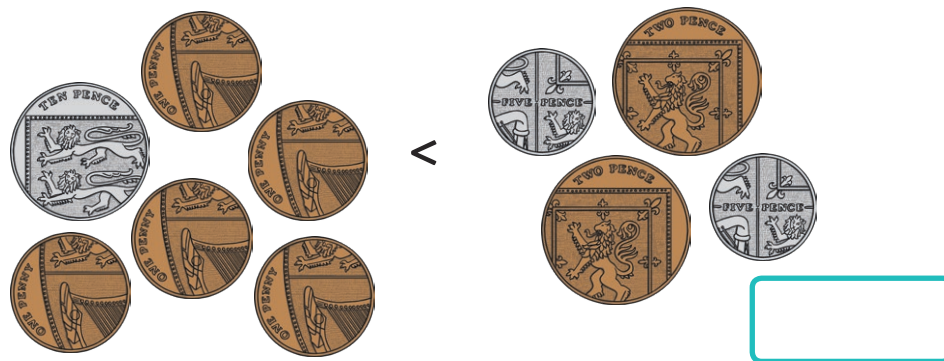
Does the group with the most coins have the highest value?

Can you correct the false statements?

## Count Money - Pence



True or False?



Convince me!

# Diving into Mastery – Deepest

## Adult Guidance with Question Prompts

Children will benefit from having coins to investigate practically for this activity, preferably real coins but if not available then plastic coins can be used.

What do we know about Ann's coins?

What shall we start with when we are trying to find different combinations?

What coins must we always include?

What is the maximum number of coins we could have?

Can you work systematically to find different solutions?

How can you check you haven't written the same one twice?

Have you found the same combinations as your friend?

How could she make 50p with the fewest coins?

## Count Money - Pence



Ann has a mixture of coins in her purse.

She gives these clues:

The total value of the coins is 50p.

I have some silver and some copper coins.

I have three 5p coins.

I have less than 10 coins.



What combinations of coins could Ann have?

Find as many as you can.

What is the fewest number of coins she could have?