

# COUNTDOWN Challenge

## Problem Solving Strategy: Guess & Check

Use the guess and check strategy to solve the following questions.

I have 25¢. If...

I have ① coin, then the coin is \_\_\_\_\_

I have ①②③ coins, then the coins are \_\_\_\_\_

I have ①②③④ coins, then the coins are \_\_\_\_\_

I have ①②③④⑤ coins, then the coins are \_\_\_\_\_

I have ①②③④⑤⑥⑦⑧ coins, then the coins are \_\_\_\_\_

Each of the COUNTDOWN teachers has 4 pets. They either have dogs (which have 4 legs) or birds (which have 2). Use this chart to figure out how many and what types of pets each teacher has.

Pet Owner	# of Legs	# of Dogs	# of Birds
Cathy	8		
Diane	10		
Dorothy	12		
Paul	14		
Mary	16		

Felicia has 12 coins which are either nickels or dimes. She has 85¢. What coins does she have?

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Laron has 12 pets which are either dogs or birds. If his pets have a total of 34 legs, how many dogs and how many birds does he have?

\_\_\_\_\_

James has 12 coins which are either nickels, dimes or quarters. He has \$1.40. What coins does he have?

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Erum has 12 pets which are either dogs, cats or birds. If his pets have a total of 38 legs, how many birds does he have?

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