Thursday 4th June 2020

Money

Hi Yachts 😊

Mental Maths

Choose the best option for you then solve the problem in your head:

Option I: What addition and subtraction calculations give the answer 36?

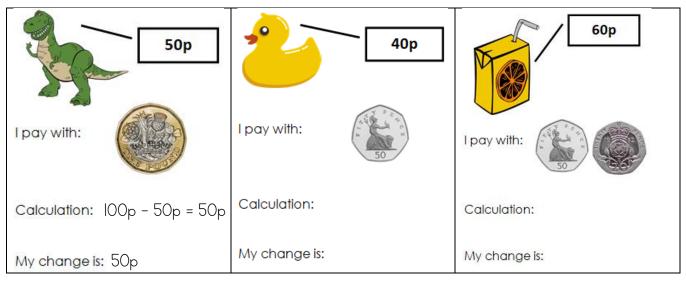
Option 2: What addition, subtraction, multiplication and division calculations give the answer 36?

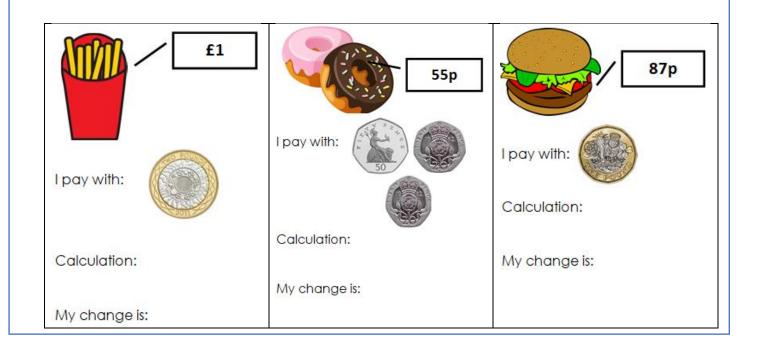
Option 3: What multiplication, division and fraction calculations give the answer 36?

Use the RUCSAC method to solve the problems:

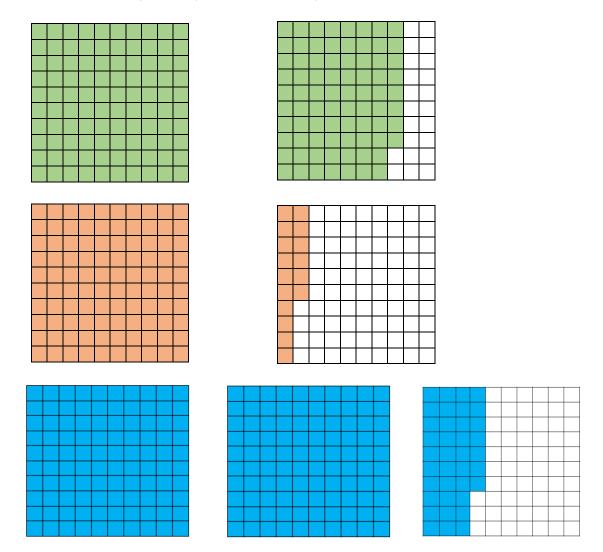
R	Read	Read the question carefully.
	Underline	Underline or write down the keywords and numbers.
	Choose	Choose the correct operation $(+ - x \text{ or } \div)$ and a mental or written method of calculation (you could use diagrams).
	Solve	Solve it! Make sure you follow the steps carefully.
	Answer	Check that you have answered the question properly. What did you need to find out in the first place?
C	Check	Check your answer. Use the inverse calculation or another checking technique (was it close to your estimate?)

I. Write the calculation for each question then solve how much the change should be. Remember that ${\sf El} = {\sf IOOp}$. I have given you an example.





- 2. Each shaded square on the grid represents lp.
 - a. How much money does each diagram show? Give your answers in pence only and in pounds and pence e.g. 278p, £2.78
 - b. Is there a quick way to count the squares?



3. Add together the amount in the green diagram and the amount in the orange diagram. Give your answer in pence only and in pounds and pence.

Remember the place value of each digit and use partitioning to make it easier. Example:

Step I: Add the ones together: 6 + 6 = 12

Step 2: Add then tens together (don't forget to carry over any tens that you now have from adding the ones together): 90 + 70 + 10 = 170

Step 3: Add the hundreds together (don't forget to carry over any hundreds that you now have from adding the tens together): 100 + 200 + 100 = 400

Step 4: Add the totals from the hundreds, tens and ones calculations together: 400 + 70 + 2 = 472p = £4.72

- 4. Subtract the amount in the orange diagram from the amount in the blue diagram. Give your answer in pence only and in pounds and pence.
 You can use partitioning again to help you. Think about how you write the pounds and pence answer if you don't have any pounds.
- 5. Add your answer from question 5 to the amount in the blue diagram. Give your answer in pence only and in pounds and pence.

Challenges

6. Solve these problems by adding near doubles then adjusting. Remember to give your answer in pounds. *Example:*

2 more than 40 + 2 less than 40 = 80 + 2 - 2 = 80

Double 40 is 80

- 7. I start with some pound coins, some ten pence pieces and some pennies. After exchanging, I only want to have pound coins.
 - a. What coins could I start with?
 - b. How many different options can you think of?
 - c. Can you find a system for working out all the options?
 - d. Which units (hundreds, tens or ones) are the most important in this task?