## Maths - Year 5

Calculating 16: Solving problems involving several steps

| Key Vocabulary |  |
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| Budget | Allow or provide a particular amount of money to <br> spend. |
| Profit | A financial gain on the amount of money spent. |
| Loss | A financial loss on the amount of money spent i.e. <br> no profit is made and you don't make back the <br> money that you spent. |
| Overheads | Costs to maintain a business. |
| Takings | Money you make from a business or venture. |

## Mathematical Skills

- Approach problem solving confidently.
- Draw on a bank of known number facts to calculate efficiently.
- Organise work and communicate ideas fluently.
- Choose operations, strategies and methods appropriate to the problem.


## Mathematical Methods

- Problems involving multiplying and finding differences e.g. when planning a charity school fair, calculating how many hours they can afford to hire a bouncy castle for with a budget of $£ 100$.

- Problems involving multiplying and adding e.g. At the school fair, finding the cost of 8 cups of coffee and 7 cups of tea.

- Problems involving subtracting and dividing e.g. They sell 1 tuna salad at $£ 3.15$ and 3 of a mystery item.

What is the cost of the mystery item?


Total cost £8.10


- Problems involving adding and subtracting e.g. calculating the total profit made on the bouncy castles and the cake stall.

Profit on the cake stall: $\mathbf{£ 1 6 5 . 0 0 - £ 1 . 8 7}$
£165-£2 = £163 $\mathbf{£ 1 6 3 + £ 0 . 1 3 = £ 1 6 3 \cdot 1 3}$

Total profit on the bouncy castles and cake stall: $£ 193 \cdot 10+£ 163 \cdot 13$

## Can you..?

- Elsa has $£ 15$. If she spends 15 minutes on the go-karts and 45 minutes on the boating lake, how much money will she have left?

- What will the total cost be of 4 cartons of apple juice, at 55 p each, and 4 slices of cake, at $£ 1.15$ each?
- Three friends buy an apple juice, at 55 p each, and the same snack. They spend $£ 5.10$ in total. What was the individual cost of the snack?

