

Maths - Year 4

Calculating 14: Solving problems involving more than one step

Key Vocabulary

Factor	A number that divides into another number exactly, e.g. 4 is a factor of 8.
Multiple	The product of 2 whole numbers larger than one e.g. 15 is a multiple of 3 and 5.
Remainder	Something that is left over when other parts have been used.
Sharing	Occurs in dividing when we know an amount and want to find out how many times a different amount will go into it.
Exchanging	Borrowing an amount from one place value column and redistributing it to another.
Partition	Splitting a number in different ways, usually to help with calculating, e.g. 27 can be partitioned into 2 tens (20) and 7 ones (7)
Budget	A limited amount of money to spend.

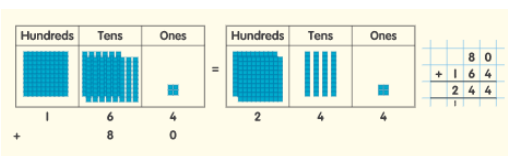
Mathematical Skills

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

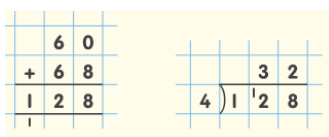
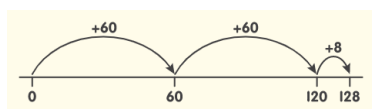
Mathematical Methods

- Adding and finding differences e.g. what holiday could a family afford with a £300 budget?
e.g. driving to Sunnydale

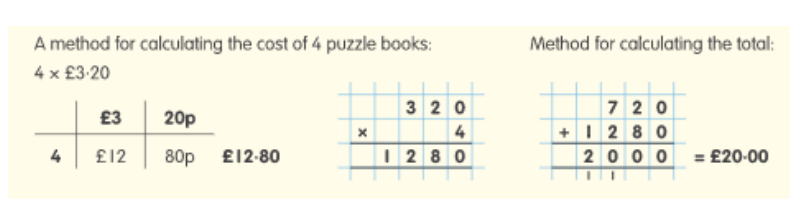
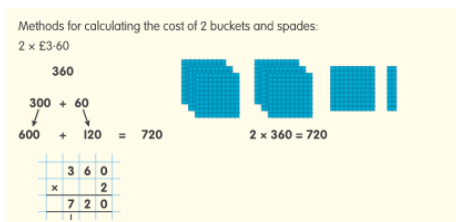
Method of travel	Cost	Campsite	Tent cost	Caravan cost
Car	£80	Beachview	£96	£148
Train	£132	Sunnydale	£76	£164
Coach	£60	Treetops	£68	£240



- Adding and dividing e.g. calculating the cost of a holiday per person if the total price is for 4 people.



- Multiplying and adding e.g. the cost of 2 sets of buckets and spades (£3.60 each) and 4 puzzle books (£3.20 each).



- Subtracting and dividing e.g. find the cost of 1 pack of batteries when a torch and 2 packs of batteries cost £8.50 altogether. One torch costs £6.00.

Methods for calculating the cost of 1 packet of batteries:
 $£2.50 \div 2$


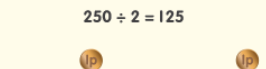

250

200 + 50


half ↙ ↘ half

100 + 25 = 125

250 ÷ 2 = 125

2 2 5 0



Can you..?

The tables below show the prices of different parties and food.

Party type	Cost for 15 children
Themed	£136
Bouncy castle	£92
Cinema	£124
Swimming	£118

Food	Cost for 15 children
Sandwiches	£42
Hot food	£55

- How much will it cost to have a cinema party with hot food and a themed party with sandwiches?

- A pack of 5 notepads costs £1.40. How much does 1 notepad cost?
- Calculate the missing number to balance the scales.

