

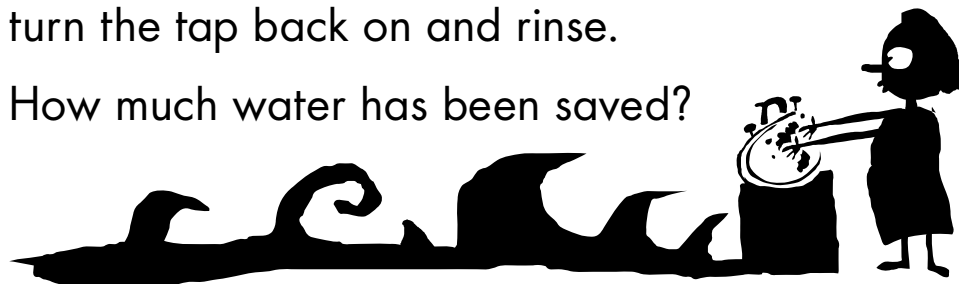
# Every Little Drop

How much water do you use if you leave the tap running while you wash your hands?



Now, wet your hands, turn the tap off, rub your hands together to free dirt or germs, turn the tap back on and rinse.

How much water has been saved?



Test results

Test results

Now, suppose that everyone in the class turns the tap off while they rub their hands together to loosen the dirt and that they do this twice a day.

How much water would be saved in a day?

How much water would be saved in a week?

How much water would be saved in a month?

How much water would be saved in a year?

Key Concept: *Measurement – using standard units*

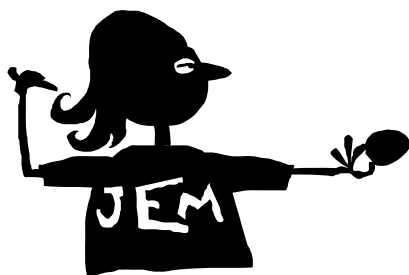
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# Movie Money

Between them, Jem, Matt and Kate had £18, which was exactly the right money needed for all three of them to go to the cinema. But none of them had the right money for the fee, so ...



I'll give Kate a gold coin.



I'll give Matt a gold coin.



I'll give Kate a silver coin.



How much might Jem, Matt and Kate each have to start with?

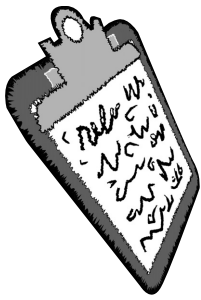
How much would they have to give each other?

Create a Movie Money problem of your own and test it with a friend.

**Key Concept:** Money – operations with coins

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# HOW TO USE THIS BOOK



## TEACHERS' FILE

Read this section to find out how to make the most of this book. It contains ideas for classroom organisation as well as background notes, a handy list of materials, technology tips, assessment ideas and suggestions for parental involvement.

## QUICK STARTS

Provides problem-posing and investigation ideas that introduce specific problem-solving approaches, such as:

- comprehending the problem,
- dealing with new mathematical vocabulary,
- identifying a suitable strategy for getting started.

Can be used at any time as mental starters or quick challenges with little or no preparation.

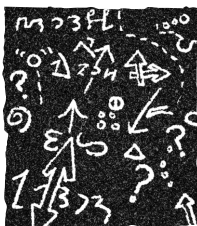
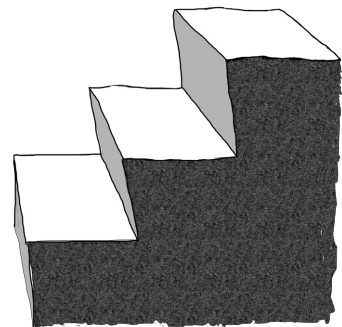


## TAKE YOUR OWN TIME

These PCMs can be incorporated into your current maths unit or can be used independently to scaffold or challenge mathematical thinking. Sheets such as the Number Cards (PCM 23) need to be copied onto card and laminated while Problem-solving Strategies (PCM 27) can make a classroom poster.

## STEP BY STEP

Task cards that challenge pupils to work together as a community of maths learners to solve problems that cannot be solved alone. Clear step-by-step instructions are given to scaffold pupils through the process.



## PLEASE EXPLAIN

Teaching notes for the PCMs and a detailed chart listing the maths strands covered in all of the activities in the books. Solutions are provided for some of the trickier investigations.