## Week 15, Day 4

Solving mathematical puzzles: domino problems Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the Learning Reminders.

2. Think you've got it? Have a go at the Investigative Practical Activity.

3. Have I mastered the topic? A few questions to Check your understanding.

Identify the value of the ' 4 ' in the following numbers:
(b) 4.821
(c) 0.043
(d) 5.104
(e) 48,739

How many times must Dan multiply 0.048 by 10 to get 48,000 ?

What number is one hundred times smaller than 0.4 ?

## Learning Reminders

## Solving domino puzzles. <br> To solve today's puzzles we will be using our strategies for quickly adding single digits.



Learning Reminders

Solving domino puzzles.

A domino has up to 6 spots in each place.


This one has a total of 11 spots. That's a near double!

## There are $\mathbf{2 8}$ unique dominoes in a set.



The ones with no spots are called blanks. This is 'blank-3' and has a total of 3 spots.


## Learning Reminders





## Investigative Practical Activity Domino squares

Carefully cut out this set of dominoes to use if you do not have any at home.

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## Check your understanding

## Questions

Make squares of four dominoes with the following totals.
Don't forget that the ends must match!


Fold here to hide answers

## Check your understanding

 AnswersHere are just some of the possibilities:

| 1 | 1 | 1 |
| :---: | :---: | :---: |
| 1 | 12 | 0 |
| 4 | 4 | 0 |


| 2 | 1 | 1 |
| :---: | :---: | :---: |
| 2 | 16 | 1 |
| 4 | 4 | 1 |


| 3 | 3 | 3 |
| :---: | :---: | :---: |
| 3 | 26 | 5 |
| 2 | 2 | 5 |
|  |  |  |

