



0-9 Dominoes

Teaching Suggestions

Recommended for Prep-Grade 4

This set of dominoes incorporates numerals, words and dot arrangements for the numbers 0-9 and can be used to develop students' number knowledge in the classroom. They can be used as a focus for the whole class, by small groups or individually.

At all levels students can play the traditional game of dominoes using:

- the red dominoes to develop number word knowledge
- the blue dominoes to develop knowledge and recognition of dot arrangements
- the green dominoes to develop numeral recognition
- a combination of all the dominoes

Level One

Use the blue dominoes to:

- count the dots on each side and record the numbers
- count all the dots on the two sides to find the total of the whole domino
- count the dots and position the largest collection on the left of the domino tile

Use the green dominoes:

- as flash cards to develop recognition of numerals
- as bingo cards: cover the number when it is rolled on a 0-9 dice

Use the red dominoes to:

- develop recognition of number words
- individually recognise number words and write the number and/or draw the dots to match

Use the blue and green dominoes together:

- to play concentration/memory: match the dot arrangement to the numeral
- to play snap: match the dot arrangement to the numeral
- for individual activities: give each students one domino and ask them to either draw the dot arrangement to match the number or write the number for the dot arrangement shown

Level Two

Use the blue, green or red dominos to:

- write an addition equation using the 2 numbers shown on the domino:
solve by counting on from the largest number to find the total

- write a subtraction equation using the 2 numbers shown on the domino: solve by counting back from the largest number to find the answer
- write equivalent equations for the 2 numbers shown on the domino: eg $2 + 3 = 5$ and $5 - 3 = 2$

Use the green dominos to:

- practice reading two digit numbers
- model the two digit number shown with equipment such as icy-pole sticks, MAB, or other place value material
- select an amount of dominoes and order the two digits shown from the smallest to the largest number

Level Three

Use the blue or green dominoes to:

- practise two digit addition and subtraction problems: students can arrange the dominoes to show the answer and/or be asked to write the problem down: eg the 2/9 and 3/1 dominoes could become the following equations
 $29 + 31 = 60$ and $60 - 31 = 29$ or $31 - 29 = 2$ and $2 + 29 = 31$
- practice four digit addition and subtraction problems using 4 dominoes: 2 side-by-side and two below
- select an amount of dominoes, and arrange them to make the largest or smallest number
- select a domino and represent it as a fraction
- select two or three dominoes to make a number, roll a dice, then use the dice number value to multiply the domino number

Use the blue dominoes to develop knowledge of the multiplication facts by:

- using the dot arrangements to draw "groups of" to work out the answers: eg the 4/3 domino could be drawn as 4 groups of 3 dots or 3 groups of 4 dots
- recording the related division facts
- developing arrays based on the dot arrangement shown
- recording and solving multiplication facts using the 2 numbers shown on the domino

For more ideas see:

Domino Deductions: Developing Mathematics from Dominoes by Paul Swan

Dominoes by Geoff White: Prime Number, Vol 15, No 4, Nov 2000

Domino Mathematics: AMT, Vol 56, No 3, 2000

Doing it with Dominoes by John Gough: APMC, Vol 7, No 3, 2002

