

Drop 10

Purpose

To strengthen students' knowledge of pairs of numbers that add to 10

Outcomes

NS1.2 :Uses a range of mental strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers

MA1-5NA

Framework reference

To move students to PV Level 1 and Patterns and Number Structure Level 4

Materials

Counters or tiles with a different colour on each side

Copies of the *Pairs to 10* grids

Teaching point

Transparent counters could be used to cover the pairs of numbers on enlarged grids. The activity can be extended to investigate pairs of numbers with other totals.

Activity outline

Provide pairs of students with ten counters. Have one student from each pair drop the counters, determine the quantity of each colour and record the combination of numbers. Have the students take turns to repeat the process ten times.

Have the students discuss with their partners if all of the possible combinations to ten have been recorded. Ask them to record any missing combinations.

Provide each student with a copy of the *Pairs to 10* grids. Have the students select a grid and circle pairs of adjacent numbers, either horizontally or vertically, that add up to ten.

Have the students use the blank grid to create their own *Pairs to 10* grids for others to complete.

Pairs to 10 grids

1	3	7	2	8
9	8	6	4	4
5	5	3	9	6
6	6	7	1	5
4	2	8	3	7

7	3	2	5	5
4	1	8	3	7
6	9	7	3	2
5	5	9	5	8
2	8	1	5	8

8	2	4	5	5
1	7	6	7	6
9	3	8	3	4
3	2	2	5	5
7	6	4	1	9

4	6	9	2	8
7	3	1	3	4
1	2	2	8	6
9	8	5	5	3
3	7	1	8	2

Pairs to 10 grids

