## Decomposition Grid

## Practice Decomposition Using a Grid

Numbers 1-10
Preparation

1) Print a $5 \times 2$ Grid (see last page).
2) Create double-sided/duo-coloured coins.

The next page has ELM-theme images that could be used to make these coins. Alternatively, you could create simple solid colour coins using materials found around the classroom (ex: construction paper, cut coloured popsicle sticks, or paint flat rocks).
3) Laminate both the grid and coins to increase their durability.

## Classroom Activity

1) Give each learner a grid and 10 double-sided coins.

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2) Call out a number between 1 and 10 . For example, say " 8 ".
3) Guide learners to place the number of coins you called on their grid. Each coin should have the same face up.

4) Slowly ask learners to flip each coin to show the different combinations.

5) Ask the following questions as learners progress:

- How many coins are there all together?
- How many groups are there?
- Does it matter which coin you flipped over?
- How many different combinations can you make?
- Explain the pattern you see.

This extension activity was inspired by one of our pilot teachers: Émilie Couture from École Ste-Colette (Commission scolaire de la Pointe-de-l'Île).

## 5x2 Grid \& Coins

To create ELM coins, cut out the circles and glue two opposing images together (one side Chuck the Moose and the other side Tia the Giraffe).



