

ADDITION & SUBTRACTION

GENERAL INFORMATION

For year levels: 2&3

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Background/Description: In this activity students have an opportunity to engage in many aspects of mathematics in the context of a game such as:

- Subitising quantities on the dice
- Estimating the total quantity collected
- Counting using efficient strategies to find the total (moving away from counting by ones)
- Adding collections to calculate how many altogether
- Comparing quantities to find the difference

This activity covers the following Australian Curriculum - Mathematics Content:

Solve simple addition and subtraction problems using a range of efficient mental and written strategies (ACMNA030)

Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation (ACMNA055)

ONE MINUTE CHALLENGE

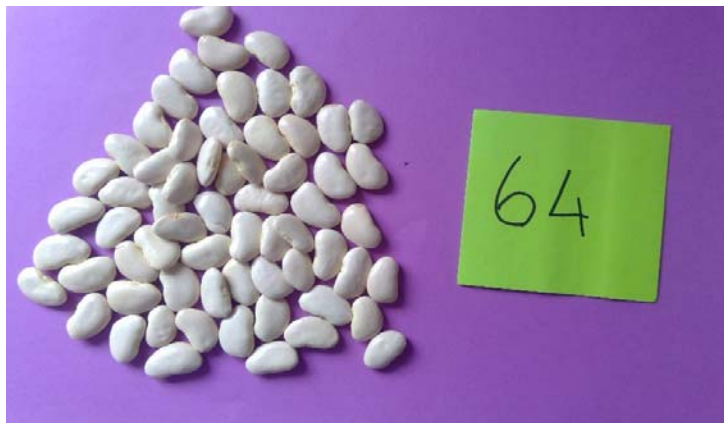
Materials: Dice, timer, paper, counters, beans, icy pole sticks etc...

Players: 1-2

Objective: To gather the largest quantity you possibly can in one minute.

Instructions for 1 player:

- Set a timer for one minute
- The player rolls the dice and takes that amount of counters
- After one minute they estimate the total collected
- They then count the collection in an efficient way
The number is written on a card and the player can have another turn



Instructions for 2 players:

- Set a timer for one minute
- One person rolls the dice, the other takes that amount of counters
- After one minute, both the roller of the die and the collector estimate the total collected
- The die roller counts the collection and the number is written on a card
- Swap turns
- After each player has completed their turn pose the following questions:
- How close were your estimates to the actual quantity?
- What is the difference between results?
- What is the number before/after?
- What is 10 more or 10 less?

Some other questions to ask:

What did you do to estimate the quantity?

How did you count your collection?

Could you count in a different way?

How many beans/counters do you have altogether?

What did you do to calculate the total?

What was the same about the collections you made?

What was different about the collections you made?

FURTHER INFORMATION

Notes for parents: This game can be played many times as the totals will often be different and the focus of the mathematics can change. There is a video included to help with how to play the game.