LESSON 1

Grade: 2

Topic: Identifying addend and sum

Sub-topic: Identifying addend when solving problems

Duration: 60 minutes

Objectives: By the end of the lesson students should be able to:

- Supply the missing addend in an addition sentence or equation.
- Use the inverse relationship between addition and subtraction.

Prerequisite Knowledge

Students should already know:

- To count from 1 – 999
- To solve questions involving addition and subtraction

Content outline
- If the addend is missing within a mathematical statement, such as $4 + 2 = 6$, we can use various methods to determine the missing addend. Methods such as:
  - Counting on
  - Using the inverse relationship between addition and subtraction.
    Eg. $4 + 2 = 6$ so: $6 - 2 = 4$ or $6 - 4 = 2$

Materials/Manipulative

Dice and counters

Procedure

EGAGE

- Allow the students to complete the magic square. All the rows and columns add to 11.

6	3	
4		
		6

EXPLORE

- Give students a set of counters and a die. Inform students that you want to find two numbers that will add to give 13. Allow the students to roll the die and whatever number they get, use the counters to count on towards 13

A possible outcome:
If a student rolls 6 on the die then he/she needs seven more counters to make thirteen. Therefore the addend would be 7.
Eg.

Likewise if the aim is to make 12 and the student rolled 4, then the students would need 8 more to make 12. Therefore the missing addend would be 8.
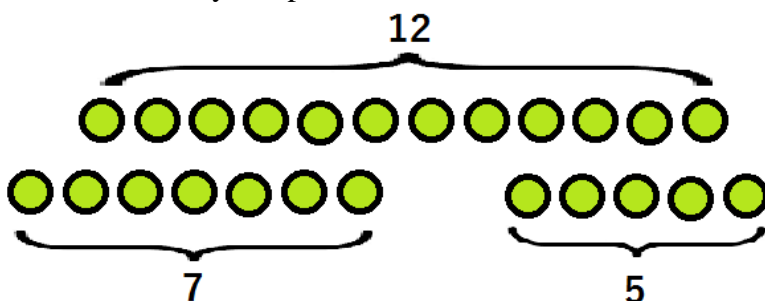**Eg.**

- Engage students in a discussion as to what an addend is and what are the possible ways of finding it. From discussion guide students to the fact that subtraction can be used to find addends.
  Allow students to experiment using the counters.
  Eg.
  With **7 + __ = 12,** students can place down 12 counters and then remove the seven to obtain the 5 or they can place down 7 counters and count on with 5 additional counters.

- Allow students to be flexible in using the counters to assist them to obtain the solutions to the following questions.

EXPLAIN

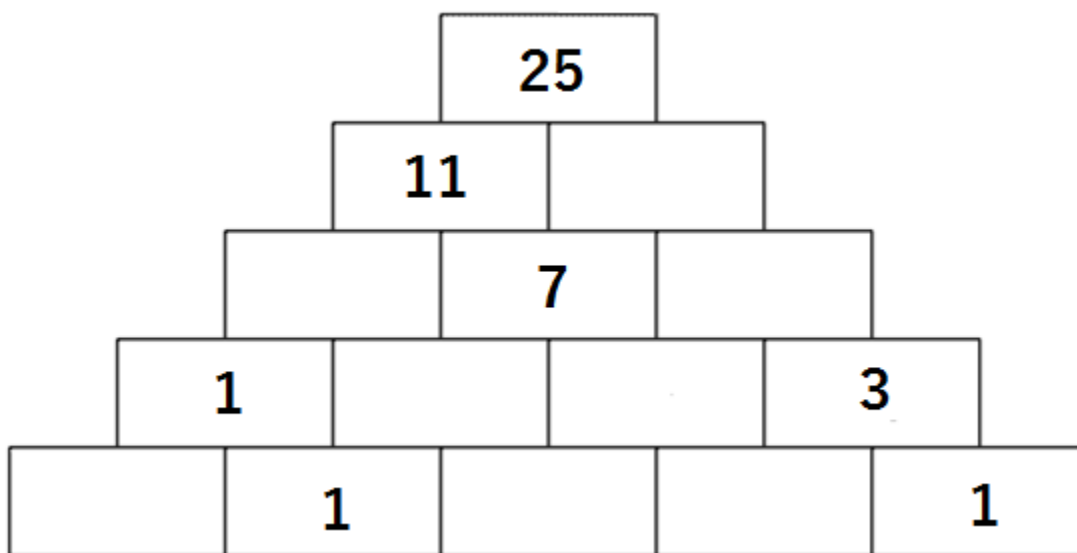Pair students and give them the following task to complete.

- List 3 things you learnt in mathematics class today.
- Share them with your partner.
- List 3 things your partner remembers.
- Is there anything additional you remember?

EXTEND
- Samantha's mother bought 17 pencils for the Easter term of school. Her mother sharpens 8 pencils and instruct Samantha to sharpen the rest. How many more does Samantha need to sharpen?
- If Bradley has 2kg of peas, how many kg of rice he needs to get to have a total of 8kg of rice and peas?

EVALUATE

Complete the addition pyramid

(This activity will be explained by the teacher prior to administration)