

# Math Lesson

Lesson Title: Library Book Story Problems

Grade: One

Content Standard:

1.OA.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

Materials: Word Problems written on posters  
Pencils/Crayons/Markers

Shared Experience and procedure details:

Problems:

- One day Noah went to the library. He took out 12 books. Five of them got lost. Some of them were safe in his bookbag. Make a picture of this story.
- One day Olivia went to the library. She took out 12 books. Seven of them got lost. Some of them were safe in her bookbag. Make a picture of this story.
- One day Kayla went to the library. She took out some books. Five of them were under a table. Seven of them were in her bookbag. Make a picture of this story.
- One day Daniel went to the library. He took out some books. Seven of them got lost. Five of them were in his bookbag. Make a picture of this story.
- One day James went to the library. He took out some books. Seven of them were about dogs. Five of them were about snakes. Make a picture of this story.

Possible Picture:

Gather students on the carpet and tell them they are going to work to solve some math problems. Read and discuss the problems together.

*These problems do not have a question; the students will need to determine what the missing information is during their drawing and discussion in the small group.*

The students break out into 5 small groups and work together to solve the problems.

Share solutions:

Possible People Talk:

Students will write about their partners and the work they did. They may include the numbers they worked with. They may include number sentences (equations).

Feature Talk:

Paper, pencil, brain, numbers, adding, subtracting, books, equals, answer, solution, total, altogether.

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Possible Symbolic Representation:

Discuss symbols. Symbols are pictures that stand for something else. They are easy to read if you know what they mean. Discuss McDonald's symbol, stop sign, etc.

Ask students to look at their problem and write it down with symbols to look like math.

Some will use standard symbols, others may use pictures or make up new symbols.

7 books lost + 5 in the bookbag = 12 books altogether.

Written By: Colvin/Williams

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