

CREATE MATHEMATICS PROBLEM

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Type.

Story problem, puzzle, logical, algorithmic

2

Beginning State.

Known and unknown information

3

Goal State.

What must be found? Condition, terms, rule, or some note.

4

Transformation Function.

Operation, Formula, existing algoritm.

COMPONENTS

TEACH A COURSE 2

PROBLEM I

Component	Description
Туре	Story problems
Beginning state	 Known information Mr. Spock want to buy 3 hats. The price of a hat in Good-Shop is \$5 more expensive than Fever-Shop. Fever-Shop gives 10% discount for the purchase of each hat. Good-Shop gives 60% discount for the second purchase of each hat. Unknown information Price of a hat in both store
Goal state	Which shop has the cheapest total price?
Transformation function	Arithmetic operation

Mr. Spock want to buy 3 hats. The price of a hat in Good-Shop is \$5 more expensive than Fever-Shop. Fever-Shop gives 10% discount for the purchase of each hat. Good-Shop gives 60% discount for the second purchase of each hat. Which shop has the cheapest total price?

TEACH A COURSE 3

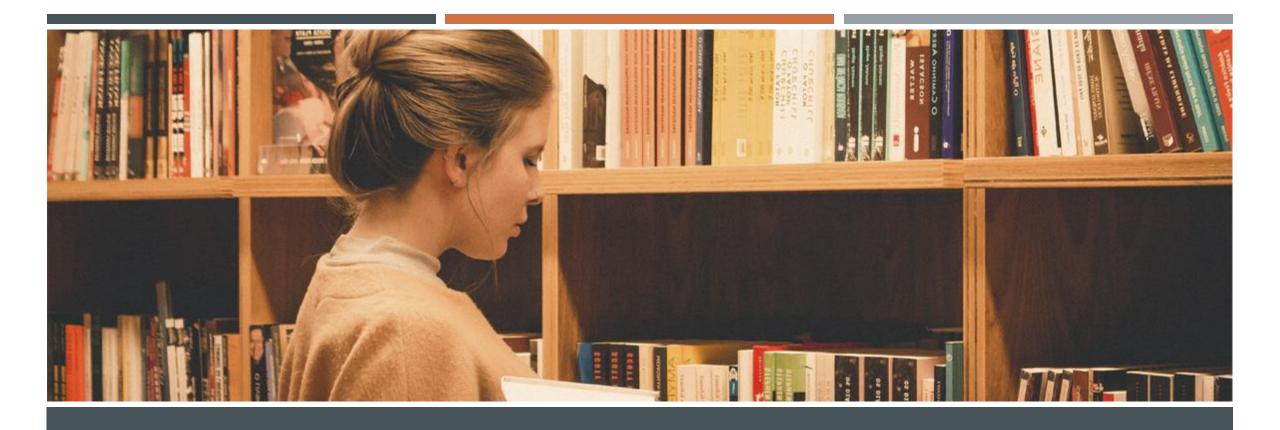
PROBLEM 2

Component	Description
Туре	Puzzle
Beginning state	Known information Nine dot array
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Goal state	Can you join all nine dots using four straight lines without lifting your pencil from the paper?
Transformation function	Visualization, drawing line

TASK 2

- I. Create well-structured problems and ill-structured problems.
- 2. Each type consist 3 problems (2 problem based on the topic and 1 free problem).
- 3. Use template to present the problems.
- 4. The problems must suitable for elementary school student.
- 5. Give solution for every problem by using Polya's problem solving strategy.
- 6. The solution must suitable for elementary school student cognitive development.

TEACH A COURSE 5



THANK YOU!