

ESM 7: Teachers' solution strategies to the study group problems presented in ESM 1

Problem (P#)	Levi	Mia
P #1	Solve an equation Use a graph	Reasoning Guess and check Solve an equation Use a table
P #2	Make a list Solve an equation	Make a list Use a graph Solve an equation Guess and check
P #3	Draw a model Work with letters and then work backward with a numerical case	Work backward Act it out with books Guess and check
P #4	Standard algorithm	Standard algorithm Draw a model Calculate without computing
P #5	Standard algorithm Use equivalent expressions	Standard algorithm Use equivalent expressions Draw a model
P #6	Work with a numerical case and then abstract from numerical cases Work with letters and then use numerical cases for evidence	Use letters for unknowns and solve the simultaneous equations (Diophantine method, see Table 10) Guess and check
P #7	Use letters to represent the general rule	Use letters to represent the general rule