## Sarah turned 36 this year. Her mother is 63.

Consider the situation, then pose some questions.

## Push and Support Cards for Reversed Age Problem

Cut out these cards before class. Share a card with a group of participants only if they need it to keep working productively.

| How many times has this happened before for Sarah and her mom? |  | Will the "reversed ages" happen again for Sarah and her mom? |
| :---: | :---: | :---: |
| What patterns do you notice in Sarah's age and Sarah's mom's age over time? |  | Would this happen with other age differences? |
| Sarah's age | Age of Sarah's mom |  |
| 35 | 62 | 's mom was born in 1942. Eric |
| 36 | 63 | reversed? |
| 37 | 64 |  |
| Are there any reversed ages in the room today? |  | In what situations do "reversed ages" happen? |
| What would the graph of "reversed ages" look like? |  | Would the "reversed ages" continue if Sarah's mother lives past 100? |
| Are there any times in Sarah and her mom's lives when their ages are both square numbers? |  | How old was Sarah when her *number of months lived* was equal to her mom's *number of years lived*? [Using only whole numbers.] |

Thank you, @MathSarahLL, @PatriciaHelmuth, @Rivera_Con, @mtrushkowsky, \& @benjamindickman!

