

Patterns and Relations
Unit 3 Line Master 3

Solving Real-World Problems

1. Tessa has 6 boxes of collector cards and 8 loose cards.
Jardin has 4 boxes of collector cards and 56 loose cards.
Tessa and Jardin have the same total number of cards.
How many cards are in each box?

2. A website received 10 698 visits during the first month of its launch.
In the third month, the website received three times as many visits as the second month.
The website received 16 402 visits over the three-month period.
How many visits did the website receive in the second month?

3. Three employees have different monthly earnings.
Niko earns \$326.70 less than Joel.
Jessop earns three times as much as Joel.
The three employees earn a total of \$8256.25 per month.
What does Joel earn monthly?

4. Evelyn is twice as old as Mika.
Petra is four less than four times the age of Evelyn.
The sum of the ages of Evelyn and Petra is two more than nine times the age of Mika.
How old is Petra?

5. Write your own real-world problem that could be represented by a multi-step equation.
Trade problems with a partner and solve each other's problem.
Trade back and check each other's solution.