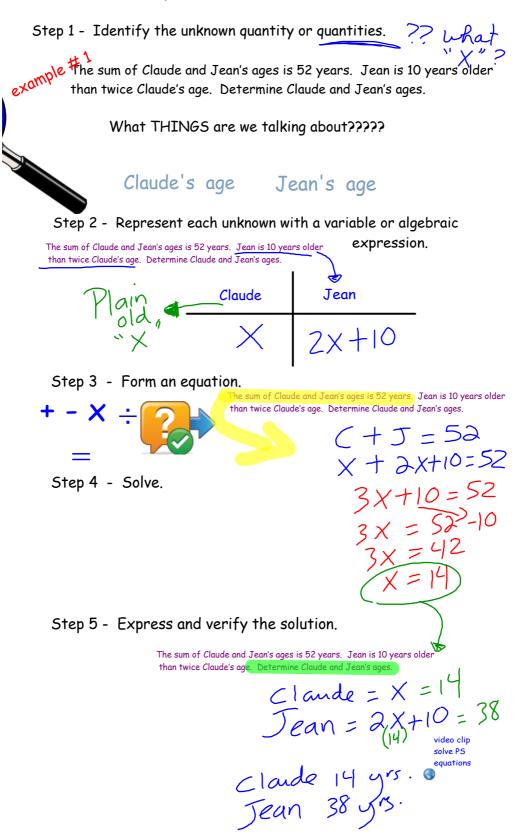
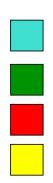
## Lesson 14 ~ From Problems to Equations

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Many problems can be transformed into equations. To transform them you must:



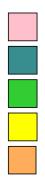


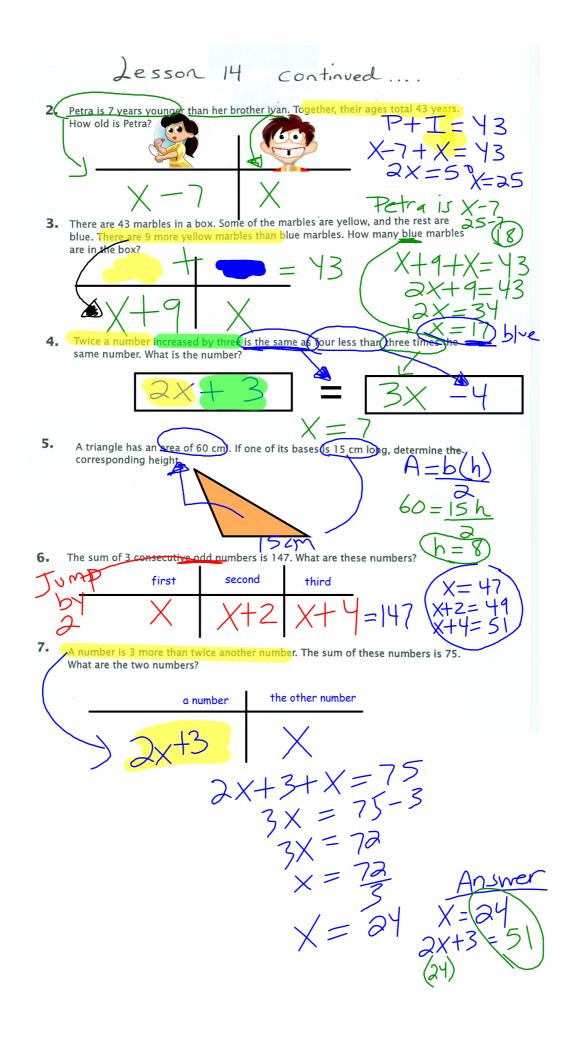


Masa wants to rent a motor scooter. It costs \$10.00, plus \$4.25/h. He has \$27.00. How many hours can he afford?



The cost for a bus to cross the bridge is \$5.00 for the bus and driver, plus \$1.25 for each passenger. Including the driver, how many can cross the bridge for \$15.00?







## Writing and Solving Two-Step Equation Word Problems

Real-life situations can often be described in terms of mathematics. All of the problems in this activity relate to daily occurrences.

**Directions:** Identify the variable in each of the descriptions below. Write and solve an equation for each one.

- 1) The sum of three consecutive numbers is 72. What are the smallest of these numbers?
- In a class of 30 students, there are 6 more girls than twice the number of boys. Let x represent the number of boys.

2) You bought a magazine for \$5 and four erasers. You spent a total of \$25. How much did each eraser cost? 5) The sum of three numbers is 81. The second number is 4 times the first. The third number is 3 more than the first. What are the three numbers?

3) How old am I if 400 reduced by 2 times my age is 244?

x x + 4 x + 7

6)

The perimeter of the triangle is 74 cm. Find the length of each side.