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# Using Bar Models: Addition and Subtraction 

## Lesson 5.1 Real-World Problems: <br> Addition and Subtraction (Part 1)

## Solve. Draw bar models to help you.

1. Mrs. Tan buys a duck and a chicken.

The mass of the duck is 2,300 grams.
The mass of the chicken is 1,675 grams. How much heavier is the duck than the chicken?
2. Allison jogs 3,860 meters and Calvin jogs 5,470 meters. How far do they jog altogether?
3. John and Tracy sell flags to raise money for their club. John sells 457 flags and Tracy sells 686 flags.
a. How many flags do they sell in all?
b. Who sells more flags? How many more?
4. On Valentine's Day, Kiri makes 96 bookmarks. Zelda makes 120 bookmarks.
a. How many more bookmarks does Zelda make than Kiri?
b. How many bookmarks do they make altogether?

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5. Leila drinks 1,466 milliliters of water a day. Mark drinks 2,895 milliliters more than Leila.
a. How much water does Mark drink?
b. How much water do they drink in all?
6. Brad has 1,300 stamps.

He has 938 Canadian stamps and the rest are Malaysian stamps.
a. How many Malaysian stamps does Brad have?
b. Which type of stamps does Brad have fewer of? How many fewer stamps?
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7. Minah buys a sofa and a dining set for her new apartment.

a. Which item is less expensive?
b. How much less expensive is it?
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## Lesson 5.1 Real-World Problems: Addition and Subtraction (Part 2)

## Solve. Draw bar models to help you.

1. $A$ computer costs $\$ 1,590$.

A printer costs $\$ 899$.
a. How much less expensive is the printer than the computer?

b. How much do the two items cost altogether?
2. There are 3,160 books and magazines in a shop. There are 2,378 books. The rest are magazines.
a. How many magazines are there?
b. There are 1,226 English books in the shop and the rest are French books. How many French books are there?
3. Mr. Michael has $\$ 1,685$.

Ms. Katty has \$2,928 more than Mr. Michael.
a. How much money does Ms. Katty have?
b. How much money do they have in all?
4. There are 3,254 children at a concert. There are 1,369 fewer adults than children attending the concert.
a. How many adults are there at the concert?
b. How many people are at the concert altogether?
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## Lesson 5.1 Real-World Problems: <br> Addition and Subtraction (Part 3)

## Solve. Draw bar models to help you.

1. The pictures below show the number of marbles in each bag.


Jane takes Bag B and Bag D. Karen takes Bag E.
a. Who has more marbles?
b. How many more marbles does she have?
2. In Green Bridge Elementary School, there are 159 adults, 1,960 boys, and 558 fewer girls than boys. How many people are there in the school?
3. Ravi has 1,286 stamps.

Terell has 1,528 more stamps than Ravi. How many stamps do they have in all?
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## Put on Your Thinking Cap!

1. Place the following digits in the boxes so that the sum of the 3-digit numbers is 999 . Use each digit only once.
(1) 2


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$9 \quad 9$
9
2. Teresa has 300 red and green apples. There are 40 more red apples than green apples. How many green apples does Teresa have?
3. Tashi thinks of a 4-digit number.

What is her number?
Use the clues below to find Tashi's number.

Every digit is different.
The sum of the thousands digit and the tens digit is 10 . The sum of all the digits is 16 .
The difference between the hundreds digit and the ones digit is 6 .
The difference between the thousands digit and the hundreds digit is 3 .
The number is greater than 8,000 .
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