GRADES



Singapore Math



COMMON CORE ALIGNED

& MOTTION &

SUBTRACTION

BAR MODEL STUDENT

ACTIVITY BOOK

- •Summary of Approach
- 14 pages of step by step instruction with examples
- Scaffolding 3 pages (6 problems) with the bar model already created to help students apply strategy
- 26 addition and subtraction problems for students to solve
- Answer Key included

By Dot Cates



14 pages of Step-by-Step Instruction



26 Addition and Subtraction Word Problems



3 Pages of Scaffolded Support So Students can Readily Apply Concepts

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Common Core Aligned Math Standards

Common Core Aligned Addition & Subtraction Bar Model Student Activity Book is aligned with the Math Content Standards for Grades 3-6, as listed below.



Grade 3

Solve problems involving the four operations, and identify and explain patterns in arithmetic.

- <u>CCSS.Math.Content.3.OA.D.8</u> Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.³
- <u>CCSS.Math.Content.3.OA.D.9</u> Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.

Grade 4

Use the four operations with whole numbers to solve problems.

 <u>CCSS.Math.Content.4.OA.A.3</u> Solve multistep word problems posed with whole numbers and having wholenumber answers using the four operations, including problems in which remainders must be interpreted.
 Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

• <u>CCSS.Math.Content.4.NBT.B.4</u> Fluently add and subtract multi-digit whole numbers using the standard algorithm.

Grade 5

None of the 5th grade standards are directly addressed by the activities in this Common Core Aligned Addition and Subtraction Bar Model Activity Book. However, the activities can provide an excellent introduction or review of solving addition and subtraction word problems for fifth graders.







WHY USE THE BAR MODEL?

- Helps students create a concrete, visual representation to simplify even the most complicated pre-algebraic word problem
- Provides students with a strategy to represent proportion and numerical relationships between elements in the problem
- Encourages students to slow down and tackle word problems methodically and logically, rather than impulsively

Students using the Singapore Math 'Bar Model', are taught to use rectangular bars when they represent relationships between known and unknown mathematical variables. Ultimately, they solve word problems using these rectangular bars, once they have critically thought through the relationship between the mathematical variables, and really considered the question the problem is asking them. Rather than impulsively putting numbers together, students must slow down as they think about sequential steps of the process. They write an answer statement, create bars, fill in the known variables, solve for the unknown and then check to make sure their answer makes sense in the answer statement. With this model, students are soon equipped to solve complicated math problems involving ratios, fractions, percentages, and even pre-algebraic equations.

Aligned with the Common-Core Math Standards, by using a model that allows students to see the number relationship between the variables in the problem, students are armed with a strategy they can apply to much bigger, more complicated problems. The rectangles can easily be drawn, divided, and segmented, to represent small and large numbers and show proportional relationships between variables in a problem.

In this student packet, students are led through three different addition and subtraction problems following each step of the Bar Model method. Then they are given the opportunity to try the method themselves, and scaffolding is provided for the first 6 problems. On the first two pages (4 problems), the bar model is essentially created for them, and the answer statements are written. All they have to do is fill in the numerical variables. The next page (2 problems), the bars are created, allowing students to fill in the remainder of the elements of the problem. For the remainder of the packet (20 problems) students independently follow the sequential steps of the Bar Model method, solving addition and subtraction problems

Read on to see examples of the Bar Model Method.



Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?

On the next 14 pages, you will see three examples of how to create Bar Models, when numerical relationships in a problem change.

- 1. Read the whole problem.
- Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

STEP 1: READ THE WHOLE PROBLEM! It is important that you read the whole problem so you can identify exactly what is being asked of you as a mathematician.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?

STEP 2: Write an answer statement. Write an answer statement, leaving a blank for the answer.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?

Answer Statement: Together, Jessica and Eric earn \$_____ per week mowing lawns.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

<u>STEP 3:</u> Identify the "who" and the "what" in the problem. Who are the people involved? What are the items involved? In this case, the 'who' is Eric and Jessica. The 'what' is money earned mowing lawns.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?

Eric's Money Jessica's Money

Answer Statement: Together, Jessica and Eric earn \$_____ per week mowing lawns.

STEP 4: Draw a bar model that makes sense. Think about the who and the what, the relationship between them.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?

Eric's Money Jessica's Money

Answer Statement: Together, Jessica and Eric earn

\$_____ per week mowing lawns.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.

6. Do the Math!

- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

<u>STEP 5:</u> Fill in the numbers you know, and a question mark for what you want to know. Think about the information that is given in the problem, and identify the information you want to know to solve the problem.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?



Answer Statement: Together, Jessica and Eric earn \$_____ per week mowing lawns.

STEP 6: Do the Math! Look at the bar model you have set up, and determine what operation you must do to solve for the question mark.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?



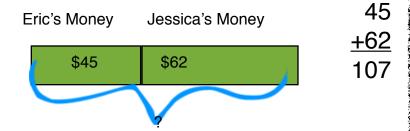
Answer Statement: Together, Jessica and Eric earn \$_____per week mowing lawns.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

<u>STEP 7:</u> Write the answer in your answer statement. In this case, 45 + 62 = 107, so they earn 107 dollars in a week. There is no additional step to complete.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?

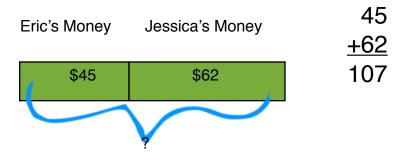


Answer Statement: Together, Jessica and Eric earn \$107 per week mowing lawns.

STEP 8: Reread the problem and your final answer statement and make sure your answer makes sense. In rereading the problem and the answer statement, the answer makes sense.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much do they earn altogether in a week?



Answer Statement: Together, Jessica and Eric earn \$__107__ per week mowing lawns.

What if the Problem Were Worded Slightly Differently? What Then?



Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?

The Bar Model Would Look Slightly Different. Let's try it on the next few pages.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

STEP 1: READ THE WHOLE PROBLEM! It is important that you read the whole problem so you can identify exactly what is being asked of you as a mathematician.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?

STEP 2: Write an answer statement. Write an answer statement, leaving a blank for the answer.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?

Answer Statement: Jessica earns \$_____ more than Eric each week.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

STEP 3: Identify the "who" and the "what" in the problem. Who are the people involved? What are the items involved? In this case, the 'who' is still Eric and Jessica. The 'what' is still money earned mowing lawns.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?

Eric's Money

Jessica's Money

Answer Statement: Jessica earns \$ ____ more than Eric each week.

STEP 4: Draw a bar model that makes sense. In this case, the relationship has changed slightly.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?

Jessica's
Money

Answer Statement: Jessica earns \$ ____ more than Eric each week.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.

6. Do the Math!

- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

<u>STEP 5:</u> Fill in the numbers you know, and a question mark for what you want to know. Think about the information that is given in the problem, and identify the information you want to know to solve the problem.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?



Answer Statement: Jessica earns \$ _____ more than Eric each week.

<u>STEP 6:</u> Do the Math! Because the bar model and the relationships have changed slightly, your approach must also change. In this case, we must subtract to find the difference between Eric and Jessica's \$.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?



<u>-45</u> 17

62

Answer Statement: Jessica earns \$ _____ more than Eric each week.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

<u>STEP 7:</u> Write the answer in your answer statement. In this case, 62 - 45 = 17, so Jessica earns 17 more dollars in a week. There is no additional step to complete.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?

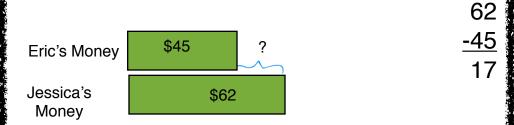


Answer Statement: Jessica earns \$ <u>17</u> more than Eric each week.

<u>STEP 8:</u> Reread the problem and your final answer statement and make sure your answer makes sense. In rereading the problem and the answer statement, the answer makes sense.

Example 1:

Eric earns \$45 per week mowing lawns. Jessica earns \$62 per week mowing lawns. How much more does Jessica earn than Eric in a week?



Answer Statement: Jessica earns <u>\$17</u> more than Eric each week.

What if the Problem Were Worded A Third Way?



Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?

The Bar Model Would Be Slightly Different. It's demonstrated on the next few pages.

- 1. Read the whole problem.
- Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

STEP 1: READ THE WHOLE PROBLEM! It is important that you read the whole problem so you can identify exactly what is being asked of you as a mathematician.

Example 1:

Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?

STEP 2: Write an answer statement. Write an answer statement, leaving a blank for the answer.

Example 1:

Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?

Answer Statement: Eric earns \$_____ in a week.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

STEP 3: Identify the "who" and the "what" in the problem. Who are the people involved? What are the items involved? In this case, the 'who' is Eric and Jessica. The 'what' is money earned mowing lawns.

Example 1:

Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?

Eric's Money Jessica's Money

Answer Statement: Eric earns \$ in a week.

STEP 4: Draw a bar model that makes sense. Think about the who and the what, the relationship between them.

Example 1:

Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?

Eric's Money Jessica's Money



Answer Statement: Eric earns \$_____ in a week.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- Fill in the numbers you know, and a question mark for what you want to know.

6. Do the Math!

- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

<u>STEP 5:</u> Fill in the numbers you know, and a question mark for what you want to know. Think about the information that is given in the problem, and identify the information you want to know to solve the problem.

Example 1:

Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?

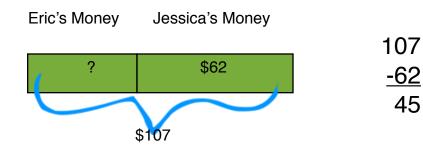


Answer Statement: Eric earns \$_____ in a week.

STEP 6: Do the Math! Look at the bar model you have set up, and determine what operation you must do to solve for the question mark.

Example 1:

Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?



Answer Statement: Eric earns \$_____ in a week.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

<u>STEP 7:</u> Write the answer in your answer statement. In this case, 107 - 62 = 45, so Eric earns \$45 in a week, which determines the <u>difference</u> between the total and Jessica's earnings. There is no additional step to complete.

Example 1:

Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?

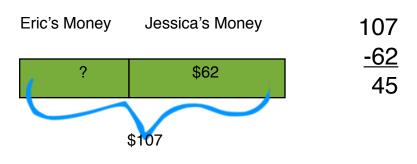


Answer Statement: Eric earns \$_____ in a week.

<u>STEP 8:</u> Reread the problem and your final answer statement and make sure your answer makes sense. In rereading the problem and the answer statement, the answer makes sense.

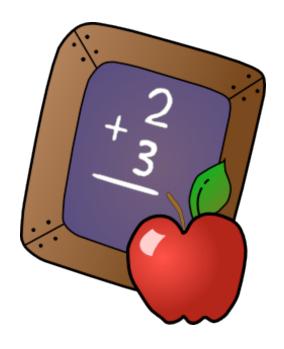
Example 1:

Eric and Jessica earn money each week mowing lawns. Jessica earns \$62 per week mowing lawns. If they earn \$107 altogether, how much does Eric earn in a week?



Answer Statement: Eric earns \$ 45 in a week.

Try it out!



On the next two pages, the problems are set up for you, and provide you with some support as you try out this new method for tackling word problems! It's up to you to solve them!

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer in statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

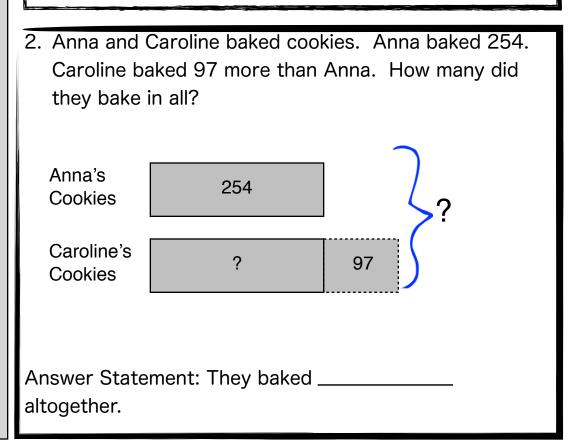
Aron and Susan each brought their marble collections to school. Altogether they had 14,231 marbles. If Susan had 5,673 marbles, how many did Aron have?

Susan's Aron's

Marbles 5,673 ?

14,231 marbles

Answer Statement: Aron has _____ marbles.



- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

1. Aron and Susan each brought their marble collections to school. Altogether they had 14,231 marbles. If Susan had 5,673 marbles, how many did Aron have?

Susan's Marbles

Aron's Marbles

5,673

8,558

14,231

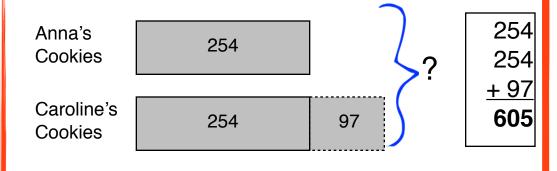
-5,673

8,558

14,231 marbles

Answer Statement: Aron has <u>8.558</u> marbles.

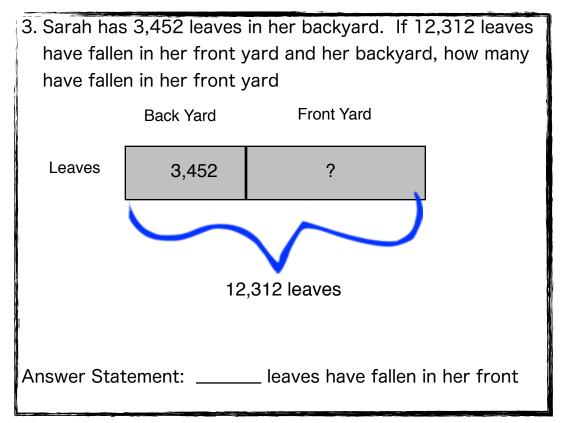
2. Anna and Caroline baked cookies. Anna baked 254. Caroline baked 97 more than Anna. How many did they bake in all?



Answer Statement: They baked _____605___ cookies altogether.



- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.



4. Meredith wore 16 different headbands over the course of a week. Julia wore 12 more than Meredith. How many did they wear altogether?

Meredith's Headbands 16 12 ?

Julia's Headbands 16 12 headbands altogether.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

3. Sarah has 3,452 leaves in her backyard. If 12,312 leaves have fallen in her front yard and her backyard, how many have fallen in her front yard?

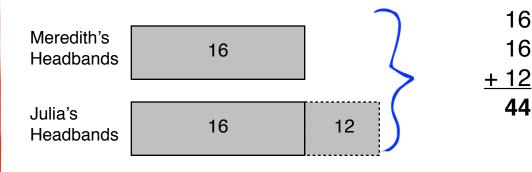
Back Yard Leaves Front Yard Leaves

12,312
- 3,452
- 8,860

12,312 leaves

Answer Statement: <u>8,860</u> leaves have fallen in her front yard.

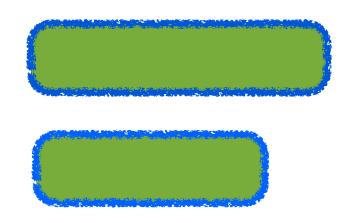
4. Meredith wore 16 different headbands over the course of a week. Julia wore 12 more than Meredith. How many did they wear altogether?



Answer Statement: They wore _____44__ headbands altogether.



NOW... Just the bar model!



On the next page, the bars of the bar model have been created for you, but you need to follow the steps of the Bar Model Method to create the answer statement, set up the bar model, and solve the problems!

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

morning	th has 353 math problems to solve today. This is she solved 201. How many more math problems be need to solve this afternoon?
Answer St	tatement:
	is a collection of red and blue trains. If he has 85 hs and 193 trains in all, how many red trains does

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

5. Elisabeth has 353 math problems to solve today. This morning she solved 201. How many more math problems does she need to solve this afternoon?

Morning

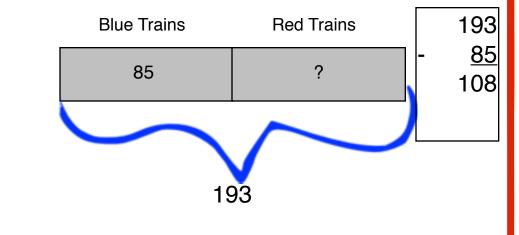
Afternoon

353
- 201
152

353

Answer Statement: Elisabeth has __152___ problems to solve this afternoon.

6. Oliver has a collection of red and blue trains. If he has 85 blue trains and 193 trains in all, how many red trains does he have?



Answer Statement: Oliver has <u>108</u> red trains.



You are on your own! Good Luck!



The next ten pages have problems for you to work through independently. Each page has two word problems, but also lists the Model Drawing Steps so you can follow them sequentially.

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

7. Marcos made 436 donuts. Michael made 891 donuts. How many more donuts did Michael make than Marcos?

Answer Statement:

8. David ate 93 raisins. Andrew ate 56 more raisins than David. How many raisins did they eat together?

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.

than Marcos.

- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

7. Marcos made 436 donuts. Michael made 891 donuts. How many more donuts did Michael make than Marcos?

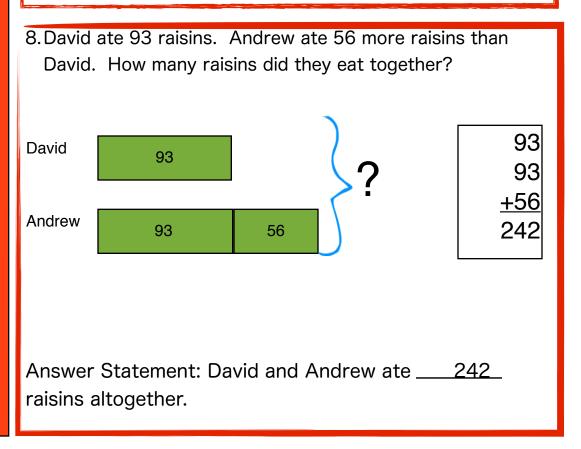
Marcos' donuts

Michael's donuts

891

-239
455

Answer Statement: Michael made ____455_ more donuts





- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

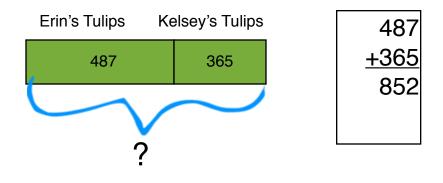
9. Erin counted 487 tulips in her garden. Kelsey counted 365 tulips in her garden. How many tulips did the children count in their gardens in all?

Answer Statement:

10. There were 333 children at the movies. Of those, 219 were girls. How many more girls than boys were at the movies?

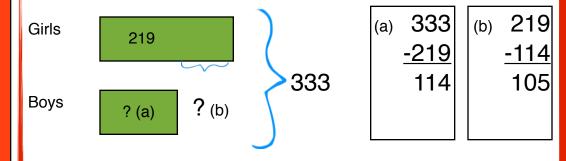
- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in vour answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

9. Erin counted 487 tulips in her garden. Kelsey counted 365 tulips in her garden. How many tulips did the children count in their gardens in all?



Answer Statement: They counted _____852_ tulips in all.

10. There were 333 children at the movies. Of those, 219 were girls. How many more girls than boys were at the movies?



Answer Statement: There were 105 more girls than boys at the movies.

KEY

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
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- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

11. Sarah and Mike both own bakeries. Sarah has 1,467 rolls at her bakery. She has 572 more rolls than Mike. How many rolls does Mike have at his bakery?

Answer Statement:

12. Anya has 876 crayons in her art kit. She has 149 more crayons than her friend Tracy does. How many crayons does Tracy have? How many crayons do the girls have altogether?

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer is statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

11. Sarah and Mike both own bakeries. Sarah has 1,467 rolls at her bakery. She has 572 more rolls than Mike. How many rolls does Mike have at his bakery?

Sarah's Rolls 1,467

Mike's Rolls ? 572

1,467 <u>- 572</u> **895**

Answer Statement: Mike has ____895_ rolls at his bakery.

12. Anya has 876 crayons in her art kit. She has 149 more crayons than her friend Tracy does. How many crayons does Tracy have? How many crayons do the girls have altogether?

Anya's Crayons 876 ? (b)

Tracy's (a) 149

(a) 876 -149 **727** (b) 876 +727 **1,603**

Answer Statement: Maria has ____727_ crayons. The girls have ___1,603____ crayons together.

KEY

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
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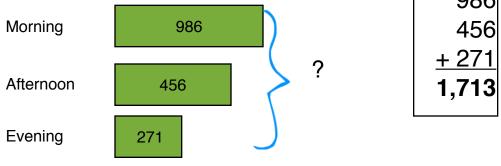
13. A store sold 986 newspapers in the morning, 456 newspapers in the afternoon, and 271 newspapers in the evening. How many newspapers did the store sell altogether that day?

Answer Statement:

14. Mary's book has 325 pages. Erika's book has 1,932 more pages than Mary's book. How many pages are there in the two books altogether?

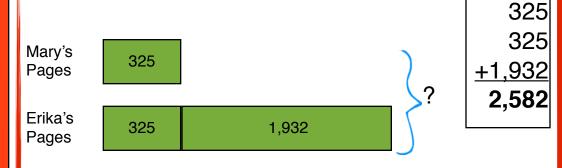
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- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

13. A store sold 986 newspapers in the morning, 456 newspapers in the afternoon, and 271 newspapers in the evening. How many newspapers did the store sell altogether that day?
986



Answer Statement: The store sold _____1,713 ____ newspapers altogether.

14. Mary's book has 325 pages. Erika's book has 1,932 more pages than Mary's book. How many pages are there in the two books altogether?



Answer Statement: The books have <u>2,582</u> pages in all.



- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
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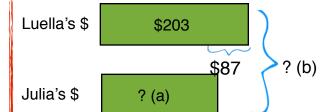
15. Luella has \$203. Julia has \$87 less than Luella. How much money do they have together?

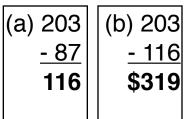
Answer Statement:

16.Iden has 495 toy cars. Breyton has 728 more toy cars than Iden. How many toy cars do they have altogether?

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
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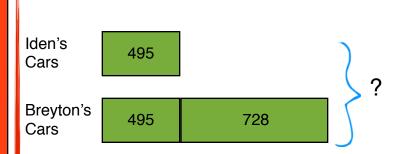
15. Luella has \$203. Julia has \$87 less than Luella. How much money do they have together?





Answer Statement: The girls have ____\$319 altogether.

16.Iden has 495 toy cars. Breyton has 728 more toy cars than Iden. How many toy cars do they have altogether?



495 +728 **1,718**

495

Answer Statement: The boys have _____1,718____ cars in all.

KEY

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

17. There are 893 girls in a school. There are 456 fewer girls than boys in the school. How many children attend the school?

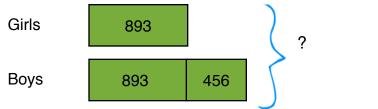
Answer Statement:

18. Juna bought some grapes at the grocery store. Angelica bought 478 grapes. If the girls bought 734 grapes altogether, how many grapes did Juna buy?

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

17. There are 893 girls in a school. There are 456 fewer girls than boys in the school. How many children attend the school?

893
456



Answer Statement: There are <u>2,242</u> children who attend the school.

18. Juna bought some grapes at the grocery store. Angelica bought 478 grapes. If the girls bought 734 grapes altogether, how many grapes did Juna buy?



Answer Statement: Juna bought <u>256</u> grapes.

KEY

+893

2,242

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
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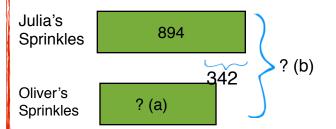
19. Julia used 894 sprinkles while decorating cookies. She used 342 more sprinkles than Oliver. How many sprinkles did they use altogether?

Answer Statement:

20. Christine has \$86. Bonnie has twice as much money as Christine. How much money do they have altogether?

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

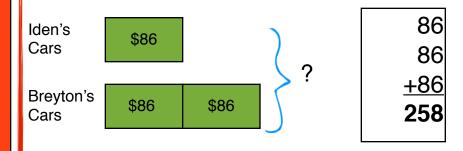
19. Julia used 894 sprinkles while decorating cookies. She used 342 more sprinkles than Oliver. How many sprinkles did they use altogether?



(a) 894 - 342 552 (b) 894 + 552 1,446

Answer Statement: They used <u>1,446</u> sprinkles altogether.

20. Christine has \$86. Bonnie has twice as much money as Christine. How much money do they have altogether?



Answer Statement: The girls have ____\$258 in all.

KEY

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

21. Wayne and Bertha saw 432 deer on Thursday, 653 deer on Friday, and 798 deer on Saturday. How many deer did they see in all?

Answer Statement:

22. Marielle received 87 birthday gifts for her 5th birthday, and 54 birthday gifts for her 6th birthday. How many more gifts did she receive for her 5th birthday?

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
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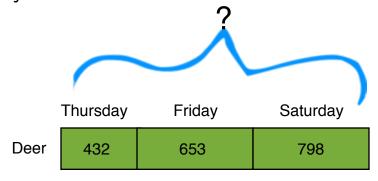
21. Wayne and Bertha saw 432 deer on Thursday, 653 deer on Friday, and 798 deer on Saturday. How many deer did they see in all?

432

653

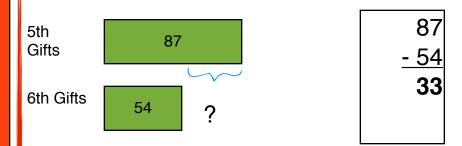
+ 798

1,883



Answer Statement: They saw ____1,883____ deer.

22. Marielle received 87 birthday gifts for her 5th birthday, and 54 birthday gifts for her 6th birthday. How many more gifts did she receive for her 5th birthday?



Answer Statement: Marielle received 33 more gifts for her 5th birthday.



- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

23. Maggie has 4,536 stamps in her stamp collection. Thalia has 2,341 less stamps than Maggie. How many stamps does Thalia have? How many stamps do the girls have altogether?

Answer Statement:

24. Debbie took 15,324 steps on her run yesterday. Today's run, she took 19,742 steps. How many more steps did she take during today's run?

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
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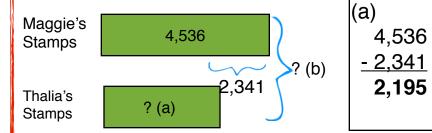
23. Maggie has 4,536 stamps in her stamp collection. Thalia has 2,341 less stamps than Maggie. How many stamps does Thalia have? How many stamps do the girls have altogether?

(b)

2,195

6,731

+4,536



Answer Statement: Thalia has <u>2,195</u> stamps. They have <u>6,731</u> stamps altogether.

24. Debbie took 15,324 steps on her run yesterday. Today's run, she took 19,742 steps. How many more steps did she take during today's run?

Answer Statement: Debbie took <u>4,418</u> more steps during today's run.

KEY

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
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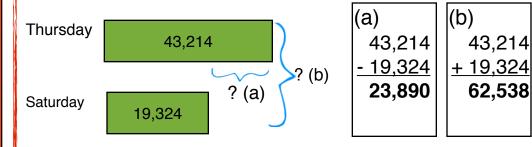
25. Elspeth saw 43,214 fireflies on Thursday and 19,324 fireflies on Saturday. How many more fireflies did she see on Thursday? How many fireflies did she see in all?

Answer Statement:

26. Douglas collected 5,634 eggs on Tuesday and twice as many eggs on Thursday. How many eggs did he collect in all?

- 1. Read the whole problem.
- 2. Write an Answer Statement, leaving a blank for the answer.
- 3. Identify the "who" or the "what."
- 4. Draw a bar model that makes sense.
- 5. Fill in the numbers you know, and a question mark for what you want to know.
- 6. Do the Math!
- 7. Write the answer in your answer statement.
- 8. Reread the problem and your final answer statement, and make sure your answer makes sense.

25. Elspeth saw 43,214 fireflies on Thursday and 19,324 fireflies on Saturday. How many more fireflies did she see on Thursday? How many fireflies did she see in all?

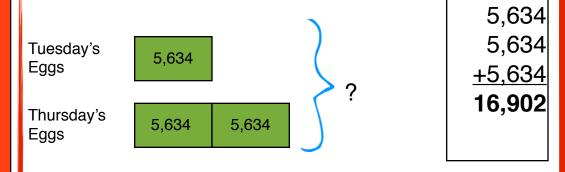


Answer Statement:

Elspeth saw _____23,890 ___ more fireflies Thursday.

She saw <u>62,538</u> fireflies altogether.

26. Douglas collected 5,634 eggs on Tuesday and twice as many eggs on Thursday. How many eggs did he collect in all?



Answer Statement: Douglas collected <u>16,902</u> eggs in all.

KEY