| **Lesson Title:** | Two-Step Real-World Problems | **Grade Level:** | 3 |

Lesson Objectives:

- Students will be able to solve 1- and 2-step real-world problems.

Learning Modalities Targeted:

☑ Visual   ☑ Auditory   ☑ Kinesthetic/Tactile

Warm-Up:

- Project a copy of the Warm-Up Activity where students can see it. Ask students what is the same and what is different about the two problems. Have a discussion with the students, helping them see that both require addition, but one requires only one step to solve and the other requires two steps to solve.

Materials Needed: pencils, paper, Warm Up Activity, Guided Practice Activity, Problem-Solving Mat, Independent Practice Activity, highlighters

Procedure:

1. Project the first real world problem from the Guided Practice Activity. Tell students that they will learn how to solve 2-step problems by performing the correct problem-solving steps. Give each student a copy of the Problem-Solving Mat. Read the first real world problem aloud. Explain that to solve this problem, it needs to be determined how much Vincent spent on the socks. So, multiply 3 by 5. Record this as step 1 in the "Problem-Solving Steps" block of the Problem-Solving Mat. Next, explain to students that to find how much change Vincent received, subtract the price of the socks from the amount he

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gave the cashier, 25. Record this as step 2 on the Problem-Solving Mat. Now that both steps have been written in words, show students how to solve the problem in the "Solve" box on the Problem-Solving Mat.

2. Repeat this procedure for the remaining problems in the Guided Practice Activity.

Independent Practice:

- Have students complete the Independent Practice Activity.

Closing Activity:

- Review the answers to the Independent Practice Activity as a class.

Advanced Learner Option

Procedure:

1. Project a copy of the Independent Practice Activity. Tell students that they will be writing their own two-step real world problems. Give each student a sheet of paper, and explain that they will write 5 real world problems. All four operations must be included somewhere in the 5 problems. If necessary, students can refer to the Independent Practice Activity for help in writing the problems.

2. When students understand the directions, allow them to work independently. When students finish, allow them to switch paper with a partner and solve each other's problems.

Struggling Learner Option

Procedure:

1. Give each student a copy of the Independent Practice and the Problem-Solving Mat. Lead students through outlining the problem-solving steps necessary for each of the problems in the Independent Practice Activity by highlighting the important information in the problem. Next, have them use the mat to record the steps. After going through each of the problems, have students go back and do the "solve" part independently.

Extension Activities

- Have students write their own real-world problem that involves two steps. Underneath the problem, have students draw a picture that represents the story in their problem. Then, have students write out the steps to solve the problem and solve.

- Have students write four real world problems that require two steps to solve. Ask them to not use the same operation twice in one problem. For example, have students create a real-world problem that requires addition then subtraction to solve, but not addition twice to solve. Be sure students use all four operations within the four problems they write.

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ELL Teaching Tips

- **Key Lesson Vocabulary**: **general** - step; **academic** – solve

- **L1 support** – Allow students to use their home language with a bilingual dictionary or a native language text. If possible, give students real-world problems to solve that are written in their native language. Or let them use their bilingual dictionary to look up unfamiliar words.

- **Think-alouds** – Demonstrate how to accomplish a task by thinking aloud as you model the task. In the Struggling Learner Option, perform a think-aloud as you model the steps students need to take to solve the first Independent Practice problem.

Problem 1

The PTA bought red and blue balloons for the choir performance. They bought 60 red balloons and 75 blue balloons. How many total balloons did the PTA buy?

Problem 2

The PTA bought red, blue, and green balloons for the choir performance. They bought 60 red balloons, 75 blue balloons, and 15 more green balloons than blue balloons. How many total balloons did the PTA buy?

Warm-Up

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Vincent bought 3 pairs of socks for $5 each. He gave the cashier $25. How much change did Vincent receive?

There were 245 people at Friday night's performance of the play. 27 fewer people attended Saturday night's performance. How many total people attended the play on Friday and Saturday night?

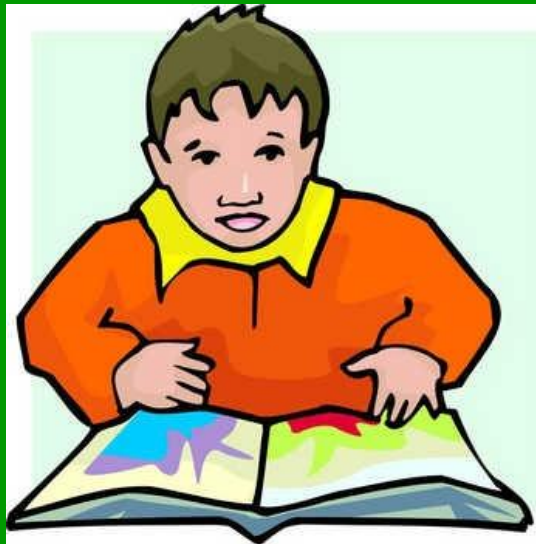edmentum

The table shows how many baseball cards three boys had.

Boy	Number of Cards
David	65
Matthew	48
Julio	59

Matthew got 12 more baseball cards for his birthday. David gave away 6 of his cards to his little brother. Who had the most baseball cards?

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Libby made a total of 60 cookies for the PTA Bake Sale. She put 10 cookies on each plate to sell. She sold each plate for $8. If Libby sold all of the plates of cookies, how much money did she make?

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Danny read his book for 20 minutes. His sister Cecilia read 2 times as long as Danny did. How many total minutes did Danny and Cecilia read?

Problem-Solving Steps	**Solve**

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<u>Problem Solving Mat</u>

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Problem-Solving Steps Slide 2	**Solve**
1. Multiply 3 by 5. 2. Subtract the answer from 25.	1. $3 \times 5 = 15$ 2. $25 - 15 = 10$ Answer: $10

Problem-Solving Steps Slide 5	**Solve**
1. Divide 60 by 10. 2. Multiply the answer by 8.	1. $60 \div 10 = 6$ 2. $6 \times 8 = 48$ Answer: $48

Problem-Solving Steps Slide 3	**Solve**
1. Subtract 27 from 245. 2. Add the answer to 245.	1. $245 - 27 = 218$ 2. $218 + 245 = 463$ Answer: 463 people

Problem-Solving Steps Slide 6	**Solve**
1. Multiply 20 by 2. 2. Add the answer to 20.	1. $20 \times 2 = 40$ 2. $40 + 20 = 60$ Answer: 60 minutes

Problem-Solving Steps Slide 4	**Solve**
1. Add 48 and 12. 2. Subtract 6 from 65,	1. $48 + 12 = 60$ 2. $65 - 6 = 59$ Answer: Matthew

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Name: _____

Solving Word Problems Independent Practice

Directions: Solve each of the problems below. Some are one-step problems, and some are two-step problems. Circle the letter of the best answer.

1. Trang's family bought a computer for $599. They also bought a printer that was regularly priced $259 but was on sale for $35 off the regular price. How much money did Trang's family spend on the computer and the printer?

   A. $305

   B. $375

   C. $823

   D. $893

2. Gina saved $18 when she went grocery shopping. Lydia saved $14 more dollars than Gina did. How much money did the two girls save all together?

   A. $4

   B. $22

   C. $32

   D. $50

3. The Little League Booster Club wants to sell 650 tickets to the spaghetti dinner to earn money for the championship game. They have already sold 372 tickets. How many more tickets do they need to sell to reach the goal?

   A. 278 tickets

   B. 282 tickets

   C. 322 tickets

   D. 1,022 tickets

4. Jermaine bought 40 lollipops for his birthday party. He gave 2 lollipops to each of the 12 people at the party. How many lollipops does Jermaine have left?
   A. 16 lollipops
   B. 24 lollipops
   C. 28 lollipops
   D. 54 lollipops

5. Sadie had 12 markers in her pencil bag. Sarah had 3 times as many markers as Sadie. How many markers did both girls have all together?
   A. 15 markers
   B. 24 markers
   C. 36 markers
   D. 48 markers

6. Clarksville Zoo had a total of 18 monkeys. There were 3 monkeys in each cage. How many cages were there?
   A. 6 cages
   B. 15 cages
   C. 21 cages
   D. 54 cages

7. Zane had 110 jellybeans. He gave 20 to his younger brother Zack. Zane then divided the rest equally into 10 bags. How many jellybeans were in each bag?
   A. 9 jellybeans
   B. 10 jellybeans
   C. 80 jellybeans
   D. 90 jellybeans

8. Mrs. Luis needed 32 bananas to make some loaves of banana bread for the bake sale at her son's school. She bought 8 bunches of bananas at the grocery store. Each bunch had 5 bananas in it. How many extra bananas did Mrs. Luis have?

   A. 3 bananas

   B. 8 bananas

   C. 19 bananas

   D. 40 bananas

Name: _____

Solving Word Problems – Answer Key

Directions: Solve each of the problems below. Some are one-step problems, and some are two-step problems. Circle the letter of the best answer.

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