

AcadeMir Charter School West



2017-2018 Second-Grade

Reading & Math

Winter Home-Learning Packet



Happy
Holidays

An Amazing Rescue



by Rebekah Cohen

- 1 On August 5, 2010, a mine in the country of Chile caved in. Thirty-three men were trapped inside. They were deep below the earth's surface. Finding a way to rescue the workers took a long time. The men were trapped for 69 days.
- 2 The men say that working together saved them. They voted on all the important decisions. They also took turns doing different tasks. On one day, a miner might be in charge of looking for a way out. On another day, he might keep the underground area clean. They also worked together to make their food last as long as they could.
- 3 Many people asked how the men stayed so cheerful during their time underground. They took turns keeping each other's spirits up. If they hadn't worked together, the men might have lost hope. But the 33 miners from Chile supported each other to the end. On October 13, 2010, they were saved at last!

Close Reader Habits

What made this rescue "amazing"?

Underline the clues from the passage that tell why it is amazing.

► Think

- 1 Read this sentence from the article.

They were deep below the earth's surface.

What is the meaning of "earth's surface" in this sentence?

- A body of water
 - B highest point
 - C deep tunnel
 - D outside part
- 2 In paragraph 2, what is the meaning of the word "tasks"?
- A rest
 - B jobs
 - C turns
 - D days

► Talk

- 3 Talk with a partner about how the men "supported" each other. Use clues from the passage in your discussion.

► Write

- 4 **Short Response** In paragraph 3, the author says that "the 33 miners from Chile supported each other to the end." Write a sentence from the article that gives a clue about the meaning of the word "supported." Now tell what the word "supported" means. Write your answer in the space on page 167.



If I don't know a word, I look for clues in the words around it. This helps me figure out what the word means.

HINT Review the passage to find the text clues for the word "supported."



Write Use the space below to write your answer to the question on page 163.

Taking Flight on a **Jumbo Jet**

3 Short Response What are two clues from the article that help you know the meaning of "attendants"?

HINT Look for the word "attendants" to find how it is used and what it means.



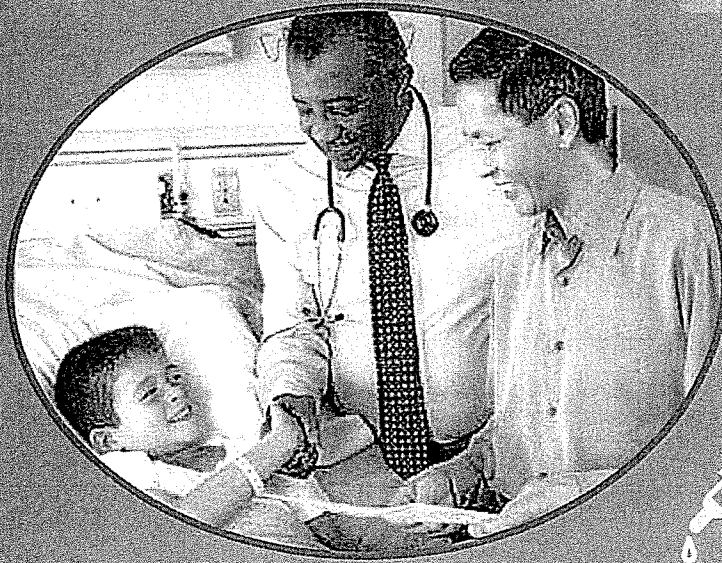
Don't forget to check your writing.

Read

WORDS TO KNOW

As you read, look inside, around, and beyond these words to figure out what they mean.

- temperature
- heartbeat
- operation
- medicine



Who Works in a Hospital?

by Tiffany Gibson

1 A hospital is a busy place! It may even seem confusing at first. Many patients, the people who need to see a doctor, come in every day. Visitors come to see their sick family member or friend. Doctors, nurses, and other hospital workers move calmly from job to job. They know just what to do. They want to give sick or hurt patients the care they need.

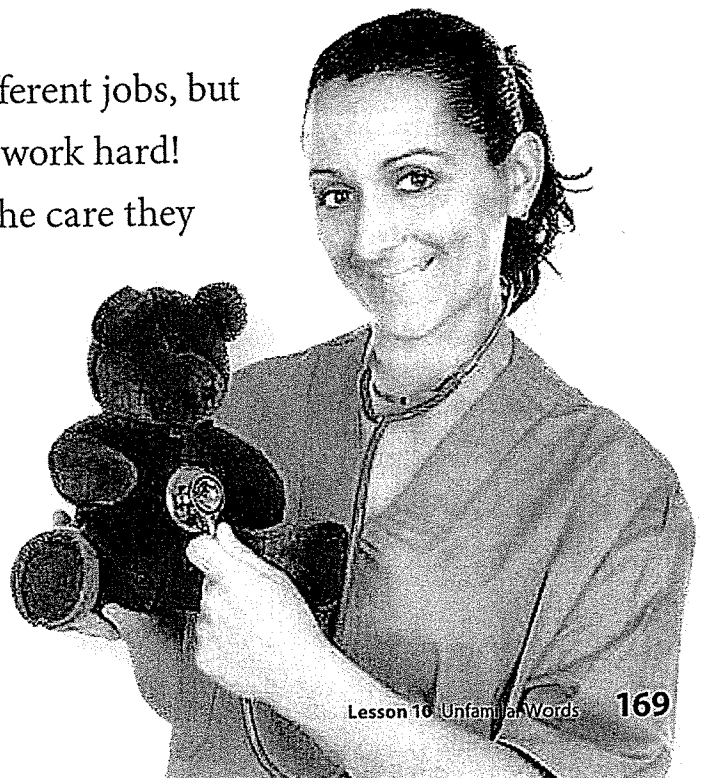


- 2 The hospital medical staff is made up of teams of doctors and nurses. Doctors must examine patients to find the best way to make them better. They check each patient's temperature and heartbeat. They also ask lots of questions. Then doctors think up plans to make each patient better. Some patients will need special medicine. Other patients may need to have an operation. A person who is sick or hurt must stay in the hospital for a few days.

- 3 Nurses take care of patients who are in the hospital. Some nurses help doctors with operations or special tests. They make sure patients improve each day. They check that the patients are getting better with the right medicine.

- 4 There are other workers who help the hospital run smoothly. Some workers give X-rays to find out if someone has a broken bone. Others carry out tests to find out why a patient is sick. Some workers make healthy meals or keep hospital rooms clean.

- 5 Hospital workers do many different jobs, but they all work together. And they work hard! Their goal is to give all patients the care they need to get better.



▶ **Think** Using what you learned by reading “Who Works in a Hospital?,” respond to the following questions.

- 1 What is the meaning of the word “patients”? Write what “patients” means based on the clues in the sentence.

Many patients, the people who need to see a doctor, come in every day.

- 2 What is the meaning of the phrase “medical staff” in paragraph 2?

- A people who keep files of plans
- B people who treat the sick
- C people who keep things clean
- D people who prepare meals

- 3 Read these sentences from paragraph 2 of the passage.

Doctors must examine patients to find the best way to make them better. They check each patient’s temperature and heartbeat. They also ask lots of questions.

What does the word “examine” mean?

- A make plans for
- B do surgery on
- C give medicine to
- D check over carefully

4 The following question has two parts. First, answer Part A. Then answer Part B.

Part A

Use the chart to write the clues for the phrase “hospital workers.” Write the phrase in the first box. After you write the clues, write what you think the phrase means.

Phrase:	
Clue	
Meaning	

Part B

What is the goal of all the hospital workers?

- A to check that the patients are getting better
- B to give the patients the care they need to get better
- C to check each patient’s temperature and heartbeat
- D to keep files about the doctors’ plans

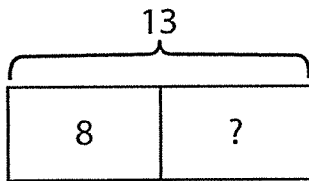
Prerequisite: Solve One-Step Word Problems

Study the example showing using a model to solve a word problem. Then solve Problems 1–5.

Example

Rex has 8 snails in a bucket. He finds more. Now he has 13 snails. How many more snails did Rex find?

Use a model. Write what you know.



Write a number sentence. Solve.

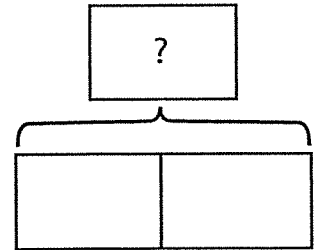
$$13 = 8 + ?$$

$$13 = 8 + 5$$

Write the answer: Rex found 5 more snails.

- 1** Some paintbrushes are in a jar. Jen takes out 4. Now there are 8 left. How many paintbrushes were in the jar to start?

Show your work.



Answer: _____

- 2** Compare the models in the Example and in Problem 1. Explain why the question mark (?) is in a different place in each.

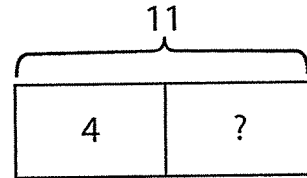
Solve.

- 3** A pet store has 9 dog leashes. It has 8 fewer dog leashes than dog collars. How many dog collars does the store have?

Show your work.

Answer: _____

- 4** Write a problem that can be solved using this tape diagram.



- 5** Show how to solve the problem you wrote in Problem 4.

Use Tape Diagrams to Solve Two-Step Problems

Study the example showing one way to solve a two-step problem. Then solve Problems 1–4.

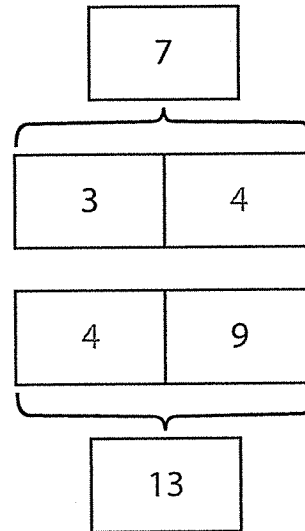
Example

There are 7 balls in the gym closet.
Then 3 balls are taken out. After class,
9 balls are returned. How many balls
are in the closet now?

Step 1 $7 \text{ balls} - 3 \text{ balls} = 4 \text{ balls}$

Step 2 $4 \text{ balls} + 9 \text{ balls} = 13 \text{ balls}$

Answer: There are 13 balls in the closet now.



- 1 Jay has 13 posters for the book fair. He hangs 5 in the morning. Then he hangs 4 more in the afternoon. How many posters does Jay have left?

Circle a number sentence for Step 1.

Underline a number sentence for Step 2.

$$5 - 4 = 1$$

$$13 - 4 = 9$$

$$8 - 4 = 4$$

$$13 - 5 = 8$$

- 2 Jay has _____ posters left.

**Vocabulary****two-step problem**

a word problem you need two steps to solve.

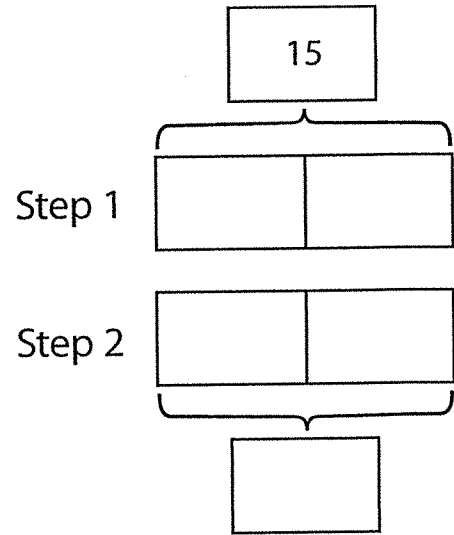


Solve.

- 3 There are 15 people on a train. At the first stop 8 people get off the train and 3 people get on. How many people are on the train now?

Complete the tape diagrams.

Show your work.



Answer: _____

- 4 A box holds 12 markers. Nan takes out 6. Then she puts 2 back. Are there enough markers in the box for Fen to take out 10? Explain.

Show your work.



Use Open Number Lines to Solve Two-Step Problems

Study the example showing one way to solve two-step problems. Then solve Problems 1–5.

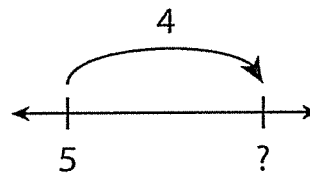
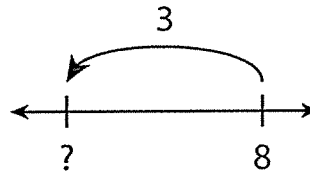
Example

There are 8 apples and some bananas on the counter. Someone buys 3 apples. Now there are 4 more bananas than apples. How many bananas are there?

Step 1 8 apples – 3 apples

Step 2 There are 5 apples.
There are 4 more bananas than apples.

Answer: There are 9 bananas.

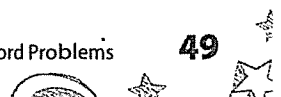


- 1 Look at the Example. Then complete the number sentences to show Step 1 and Step 2.

Step 1 $8 - \underline{\quad\quad} = \underline{\quad\quad}$

Step 2 $\underline{\quad\quad} + 4 = \underline{\quad\quad}$

- 2 Think about the Example. Could you do Step 2 first? Explain.



Solve.

- 3** There are 9 players on the field. Then 6 more players come to the field. They make two teams. There are 8 players on one team. How many are on the other team?

Show your work.

Answer: _____

- 4** Val has 11 bunnies in a pen. Then he sells 4 bunnies. Then some bunnies are born. Now there are 13 bunnies in the pen. How many bunnies are born?

Circle the correct answer.

- A** 6 **C** 8
B 7 **D** 9

- 5** Look at Problem 4. If Val has 14 bunnies at the end instead of 13 bunnies, would Step 1 change? Would Step 2 change? Explain.

Solve Two-Step Word Problems

Solve the problems.

- 1** There are 18 ducks in the pond. First 9 ducks fly away. Then 3 more ducks fly away. How many ducks are in the pond now? Circle the correct answer.

A 3 **C** 9
B 6 **D** 12

What do the ducks do in Step 1? In Step 2?



- 2** Will has 8 stickers. He gives 2 to Sara. Then he puts some on his lunch bag. He has 4 stickers left. How many does he put on his lunch bag? Circle the correct answer.

A 2 **C** 6
B 4 **D** 10

Does Will have more or fewer stickers after he gives 2 to Sara?



Sam chose **D**. This answer is wrong. How did Sam get her answer?



Solve.

- 3** Sal has 8 balloons. He has 3 red balloons. The rest are blue. Kay has 5 more blue balloons than Sal. How many blue balloons does Kay have? Circle the correct answer.

- A 5
- B 8
- C 10
- D 16

What do you need to find in Step 1?



- 4** Choose a number sentence.

$$3 + 8 = 11 \qquad 2 + 5 = 7$$
$$15 - 6 = 9 \qquad 9 - 4 = 5$$

Write a two-step word problem. Your number sentence must be used to solve one of the steps.

What are some actions that you would use plus or minus for?



Prerequisite: Add Tens and Add Ones

Study the example showing how to add two-digit numbers. Then solve Problems 1–8.

Example

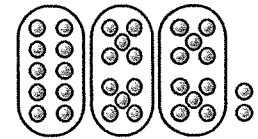
Sid has 32 marbles. Nan has 16 marbles.
How many do they have altogether?

Write 32 and 16 as tens and ones:
3 tens 2 ones and 1 ten 6 ones.

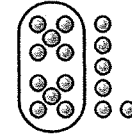
Add the tens first. Then add the ones.

$$\begin{array}{r} 3 \text{ tens} \quad 2 \text{ ones} \\ + 1 \text{ ten} \quad 6 \text{ ones} \\ \hline 4 \text{ tens} \quad 8 \text{ ones} = \mathbf{48} \end{array}$$

32 marbles



16 marbles



48 marbles

Mark has 43 shells. Then he finds 25 more shells.

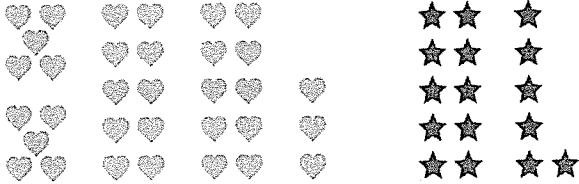
- 1 There are _____ tens and _____ ones in 43.
- 2 There are _____ tens and _____ ones in 25.
- 3 How many shells does Mark have now?

Show your work.

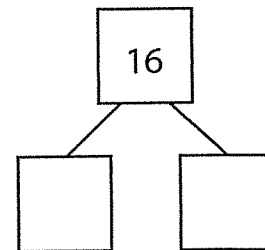
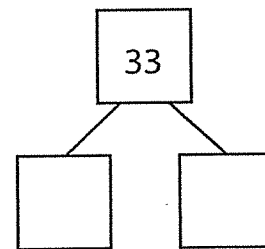
Answer: Mark has _____ shells.

Solve.

Leah has 33 heart stickers. She has 16 star stickers.



- 4 Circle groups of ten heart stickers.
There are _____ tens and _____ ones in 33.
- 5 Write the tens and the ones for the heart stickers in the number bond.
- 6 Circle a group of ten star stickers.
There are _____ ten and _____ ones in 16.
- 7 Write the tens and the ones for the star stickers in the number bond.
- 8 How many stickers does Leah have in all?
Show your work.



Answer: Leah has _____ stickers in all.

Use Base-Ten Blocks to Add Two-Digit Numbers

Study the example showing how to use base-ten blocks to add two-digit numbers. Then solve Problems 1–7.

Example

Find $18 + 24$.

1 ten
8 ones

2 tens
4 ones

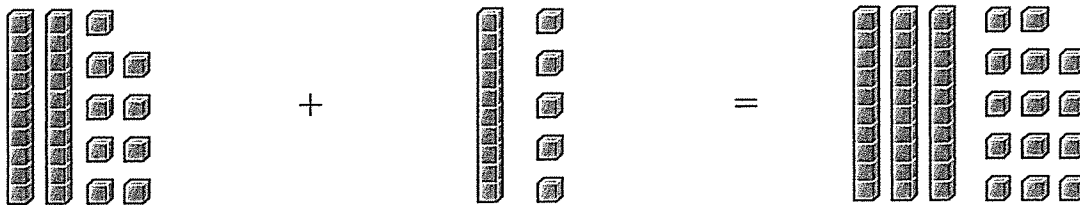
3 tens
12 ones

3 tens 12 ones = $30 + 10 + 2$
= $40 + 2$
= 42

They paint 42 pictures.

Max has 29 rocks. Then he finds 15 more rocks.

- 1 Write the tens and ones. Then add the tens and ones.



_____ tens _____ ones + _____ ten _____ ones = _____ tens _____ ones

- 2 How many tens and ones are in 14?

$14 =$ _____ ten and _____ ones, or $10 +$ _____

- 3 Add the tens. Then add the ones.

$30 + 10 + 4 =$ _____ + _____, or _____

Max has _____ rocks.

Solve.

Ms. Kottler has 27 black pens and 14 blue pens.

- 4 Write the tens and ones.

$$27 = 20 + \underline{\quad}$$

$$14 = \underline{\quad} + \underline{\quad}$$

- 5 Add the tens then add the ones from Problem 4. How many pens does Ms. Kottler have in all?

Show your work.

Answer: pens

There are 36 girls with red shirts. There are 19 boys with red shirts. There are 16 girls with blue shirts.

- 6 How many girls are there?

Show your work.

Answer: girls

- 7 How many children have red shirts?

Show your work.

Answer: red shirts



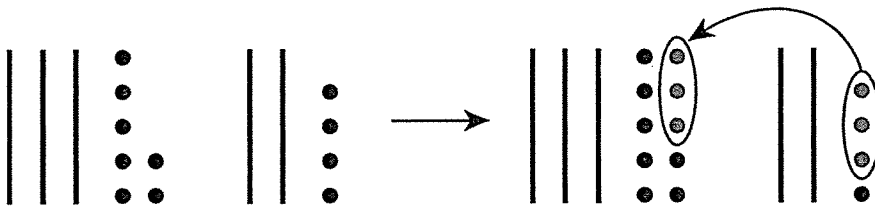
Use Quick Drawings or Open Number Lines to Add Two-Digit Numbers

Study the example showing how to use quick drawings to add two-digit numbers. Then solve Problems 1–6.

Example

What is $37 + 24$?

$37 + 24$ is the same as $40 + 21$.

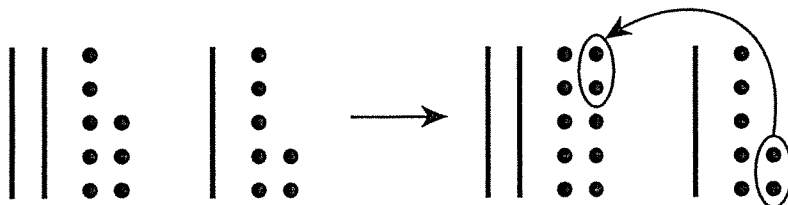


$$40 + 21 = 61$$

$$\text{So, } 37 + 24 = 61$$

Kim picks 28 apples. Nate picks 17 apples.

- 1 Look at the quick drawing. Then fill in the blanks.



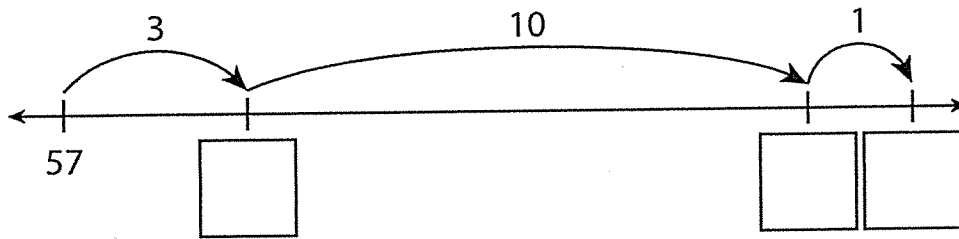
$$28 + 17 \rightarrow \underline{\quad} + \underline{\quad}$$

- 2 How many apples do Kim and Nate pick in all? _____

Solve.

3 $57 + 14$ is the same as _____ + _____.

4 Fill in the missing numbers in the open number line. Then solve $57 + 14$.



$57 + 14 =$ _____

5 Mia has 49 red beads and 36 yellow beads. How many beads does Mia have in all?

Show your work.

Answer: _____

6 Write three different number sentences with a sum of 51.

$22 + 29 = 51$

Add Two-Digit Numbers

Solve the problems.

- 1 Diego read 48 pages of a book one day. The next day he read 23 pages. How many pages did Diego read in all? Circle the correct answer.

A 61 C 71
B 62 D 75

You can add the tens and add the ones.



- 2 Which addition problems could be solved by adding $40 + 15$? Circle all of the correct answers.

A $39 + 16$ C $37 + 18$
B $38 + 13$ D $36 + 17$

What do you add to one of the addends to get 40?



- 3 Tell if the number sentence can be used to solve $27 + 56$. Circle Yes or No for each number sentence.

a. $20 + 50 + 10 + 6 = 86$ Yes No
b. $20 + 7 + 50 + 6 = 83$ Yes No
c. $30 + 56 = 86$ Yes No
d. $20 + 50 + 13 = 83$ Yes No

There are many ways to add two-digit numbers.



Solve.

4 A fruit salad has 37 green grapes and 45 red grapes. How many grapes are in the fruit salad?

A 72

C 82

B 81

D 712

Tim chose **A**. This is wrong. How did Tim get his answer?

How many tens are you adding?



5 Dan has 29 books. Kayla has 3 more books than Dan. How many books do Dan and Kayla have altogether?

Show your work.

How many books does Kayla have?



Answer: _____

