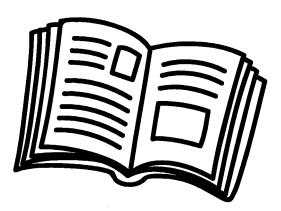
School #29 ELAHAHA Summer Learning Packet

Independent Reading!



See pages 49 and 50 of this packet.



Use the questions/ prompts on the Discourse Card resource to start a conversation about something the student has read. You may talk about a text the student read in one of the lessons above, or anything else the student is reading.

Encourage daily reading. And remember, reading isn't just about the books on the shelves—it's about anything around you with letters! Turn on the closed captioning feature on your TV or read catalogs that come in the mail. The backs of cereal boxes work, too, as do directions to board games!

Running out of stuff to read? **Grab some sticky notes, and label household objects, or make up new, silly names for things!** Communicating with sticky notes, instead of talking, is fun, too—start with a half hour and see if you can go all afternoon. Reading is everywhere!

Don't worry about right/wrong answers when you talk about text—the important thing is that you and your student share a reading experience and have fun!

Here are some websites that offer fun, free, high-quality material for kids:

www.starfall.com

www.storyplace.org

www.uniteforliteracy.com

www.storynory.com

www.freekidsbooks.org

en.childrenslibrary.org

Word Learning Routine

Use the following steps to figure out unfamiliar words. If you figure out what the word means, continue reading. If not, then try the next step.

1. Say the Word or Phrase Aloud.

Circle the word or phrase that you find confusing. Read the sentence aloud.

2. Look Inside the Word or Phrase.

Look for familiar word parts, such as prefixes, suffixes, and root words. Try breaking the word into smaller parts. Can you figure out a meaning from the word parts you know?

3. Look Around the Word or Phrase.

Look for clues in the words or sentences around the word you don't know and the context of the paragraph or selection.

4. Look Beyond the Word or Phrase.

Look for the meaning of the word or phrase in a dictionary, glossary, or thesaurus.

5. Check the Meaning.

Ask yourself, "Does this meaning make sense in the sentence?"

Lesson 16 Using Context Clues

Introduction Sometimes when you're reading a story or an article, you'll come across a word you don't know. When you don't know the meaning of a word, often you can figure it out by looking at the words and sentences around it. When you do this, you are using context clues.

Kinds of Context Clues	Examples
Look for a definition in the text.	In high school, Jim Lovell built his first rocket, a jet engine that could fly to great heights.
Find an example that will give you clues about the word's meaning.	Lovell's first attempt was a <u>failure</u> . His rocket flew into the air but then exploded and crashed.
Look for a restatement . A restatement happens when the word is discussed in a way that makes its meaning clear.	A rocket is pushed upward by materials that are combustible. These materials burn and release gases.

Guided Practice

Read the paragraph below with a partner. Circle the context clues that help you understand the meaning of the underlined word. Write the meanings of the underlined words on the space provided.

Context clues can be found in a sentence before or after the word you're trying to figure out.

Jim Lovell had always been <u>fascinated</u> by rockets. He was interested in learning everything about them and even built his own rocket. Lovell applied to the United States Naval Academy but was <u>rejected</u>. After failing to get into the Academy, Lovell did not give up. He <u>persisted</u>, or kept trying, and finally succeeded. After the Academy, he joined the NASA space program.

fascinated:	
rejected:	
persisted:	

🐉 Independent Practice

For numbers 1-4, use context clues to figure out the meaning of each underlined word.

NASA chose Lovell to <u>command</u> the *Apollo 13* space mission. Lovell was in charge of two men and of making all final decisions. After they were in space for a little more than two days, Lovell and his crew ran into trouble. One of the oxygen tanks blew up. The <u>explosion</u> caused a leak in another tank, and now there wouldn't be enough oxygen for a moon landing. Lovell and his crew had to return to Earth. Their safe return was due to Lovell's <u>capable</u> leadership.

- What does the word command mean?
 - **A** to study
 - **B** to fly with others on
 - C to be at the head of
 - **D** to be part of
- What words help you understand the meaning of <u>command</u>?
 - **A** "in charge of"
 - **B** "two men"
 - C "space mission"
 - D "chose Lovell"

- What does the word explosion mean?
 - A a leak
 - **B** a bursting of something
 - C a lack of oxygen
 - **D** leaving outer space
- What does the word <u>capable</u> suggest about Lovell as a leader?
 - A He is a gentle and patient leader.
 - **B** He is skillful at leading others.
 - C He is harsh to those he leads.
 - **D** He is weak when leading others.

Lesson 17 Greek and Latin Word Parts

Introduction English words come from many languages, including Greek and Latin.

 A root is a word part that usually can't stand alone as a word. Sometimes one root is added to another root to make a word, as in the word photograph.

	Root	Meaning	Root	Meaning
***************************************	graph	"write"	act	"do"
-	vis, vid	"see"	photo	"light"
-	phon, phono	"sound, voice"	port	"carry"

 Affixes are word parts, such as prefixes and suffixes, that are added to word roots to make words. You can add the root vis to -ible to make visible.

Americani	tele-	"distance"	-able, -ible	"able or capable"
	* 2			2011EQUE MIIO
	auto-	"self"	-ist, -er, -or	"someone who"
	Prefix	Meaning	Suffix	Meaning

As you learn Greek and Latin roots and affixes, your vocabulary will grow.

Guided Practice

Circle the roots in the underlined words. Write the meaning of each root. Then tell a partner the meaning of each underlined word.

HINT Remember, words may have two roots or a root and an affix.

- My favorite <u>actor</u> is Jesse B.
- I have five photographs of Jesse B. on my wall.
- One even has an autograph on it.
- 4 I've asked my mom if I could telephone Jesse B.
- 5 She said I could just watch Jesse B. on television.

Independent Practice

For numbers 1-4, read each sentence. Then answer the question.

I decided to compose a letter to Jesse B.

The prefix *com*- means "with," and the root *poser* means "to put or set down." What is the meaning of <u>compose</u> as used in the sentence?

- A to think
- **B** to write
- C to talk
- **D** to mail
- Dear Jesse B., I just read a biography about you.

The prefix bio- means "life," and the root graph means "write." What is the meaning of biography as used in the sentence?

- A writing about the life of an actor
- **B** writing about someone else's life
- **C** writing about the beauty of life
- **D** writing about how to live your life

Your life story inspires me and many other fans.

The prefix *in*- can mean "within," and the root *spir* means "breathe." What is the meaning of <u>inspires</u> as used in the sentence?

- A causes people to become alive
- **B** causes a heavy wind to blow
- **C** causes people to faint
- **D** causes strong lungs
- I hear you are a very benevolent person, giving to many charities.

The prefix *bene*- means "well," and the root *velle* means "wish." What is the meaning of <u>benevolent</u> as used in the sentence?

- A surrounded by good people
- B showing good will to others
- C liked by many good people
- D hoping others are good

Over Bridge, Under Tunne

by Lloyd Frank

- Mountains, lakes, and rivers can get in the way of people traveling from one place to another. There are structures that help people pass such obstacles. Bridges and tunnels help people overcome such barriers.
- Bridges and tunnels are different in design and placement. A bridge is built over a body of water, a highway, or a railroad track. A tunnel, in contrast, is a passageway under the ground, under a body of water, or through a mountain. Bridges vary in shape and are often placed above ground or water. Some are even famous. The Golden Gate Bridge is one of the most renowned bridges in the world. This celebrated structure crosses over the entrance to San Francisco Bay and connects San Francisco to northern California. The Golden Gate is known for its length and height. But it is best known for its beauty. People come from all over the world not just to cross the Golden Gate but simply to look at it.
- Of course, not even the world's most famous tunnel gets many visitors who just want to look. It's hard to get a good view of a subterranean passage. But since the Channel Tunnel opened in 1994, it has transported millions of people. The Channel Tunnel, or "Chunnel," runs beneath the English Channel and connects France and England. The Chunnel is a rail tunnel. The only automobiles that cross it are carried on special railway cars. The Chunnel is not the longest tunnel in the world, but it is one of the few tunnels that connects two countries.

Close Reader Habits

How can context clues help you? **Circle** words that are unfamiliar. Reread the article. **Underline** clues that help you figure out the meaning of the words.

Think Use what you learned from reading the science article to respond to the following questions.

- What is the meaning of <u>obstacles</u> as it is used in paragraph 1 of the text?
 - A things made below or above ground
 - **B** things that slow or stop movement
 - C things that help people travel
 - **D** things built through mountains or over water
- Underline **four** context clues in paragraph 2 that **best** help you understand the meaning of the word <u>renowned</u>.

A bridge is built over a body of water, a highway, or a railroad track.... Bridges vary in shape and are often placed above ground or water. Some are even famous. The Golden Gate Bridge is one of the most renowned bridges in the world. This celebrated structure crosses over the entrance to San Francisco Bay and connects San Francisco to northern California. The Golden Gate is known for its length and height. But it is best known for its beauty.



Synonyms are context clues with meanings that are almost like the unfamiliar words. Antonyms are context clues with meanings that are opposite to the unfamiliar words.

Talk

Discuss the meaning of the word <u>subterranean</u> as it is used in this sentence from paragraph 3:

It is hard to get a good view of a subterranean passage.

HINT Use a chart to organize your thoughts about context clues.

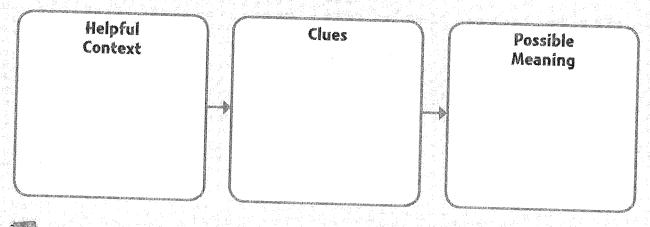


Write

Short Response Write a definition of the word <u>subterranean</u>. Identify the context clues you found. Describe the strategy you used to figure out the meaning of the word. Use details from the text to support your response. Use the space provided on page 209 to write your answer.

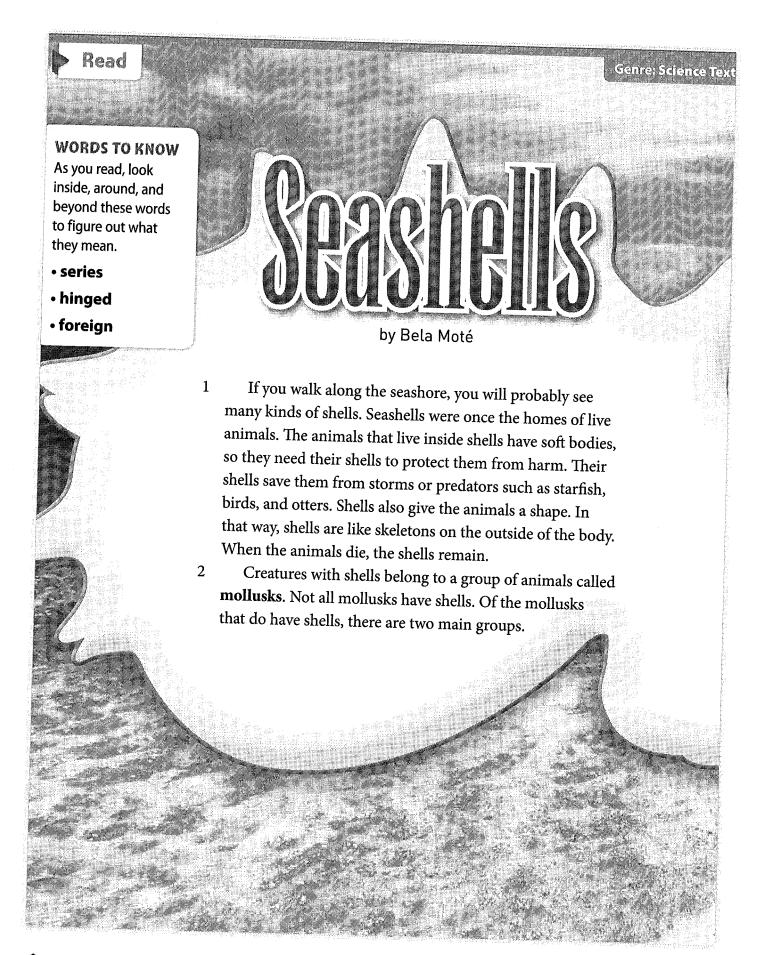
Over Bridge, Under Tunner

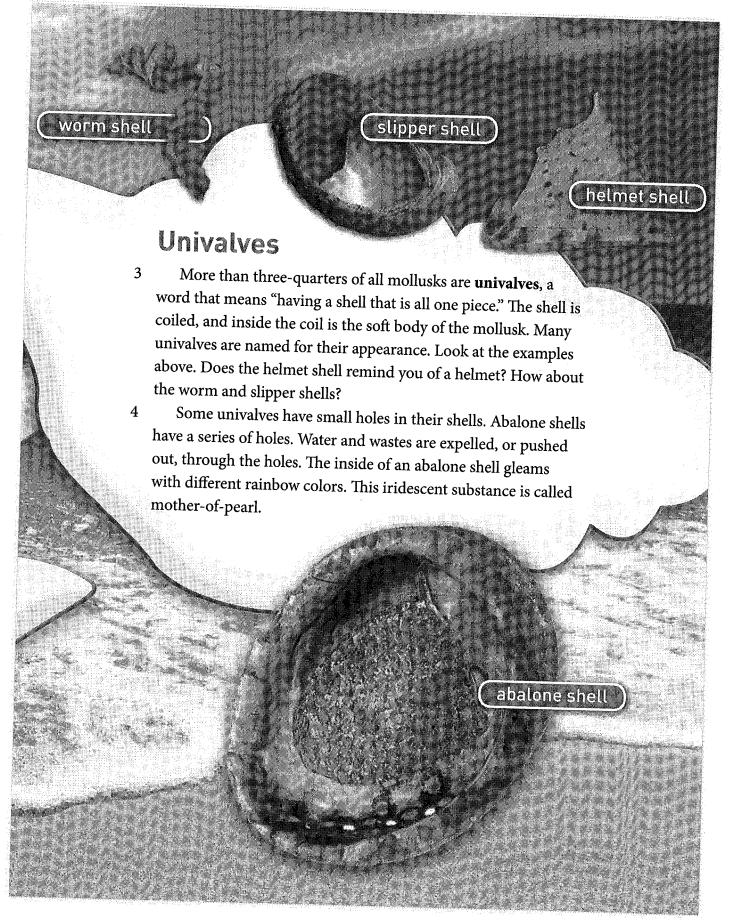
Use the chart below to organize your ideas.

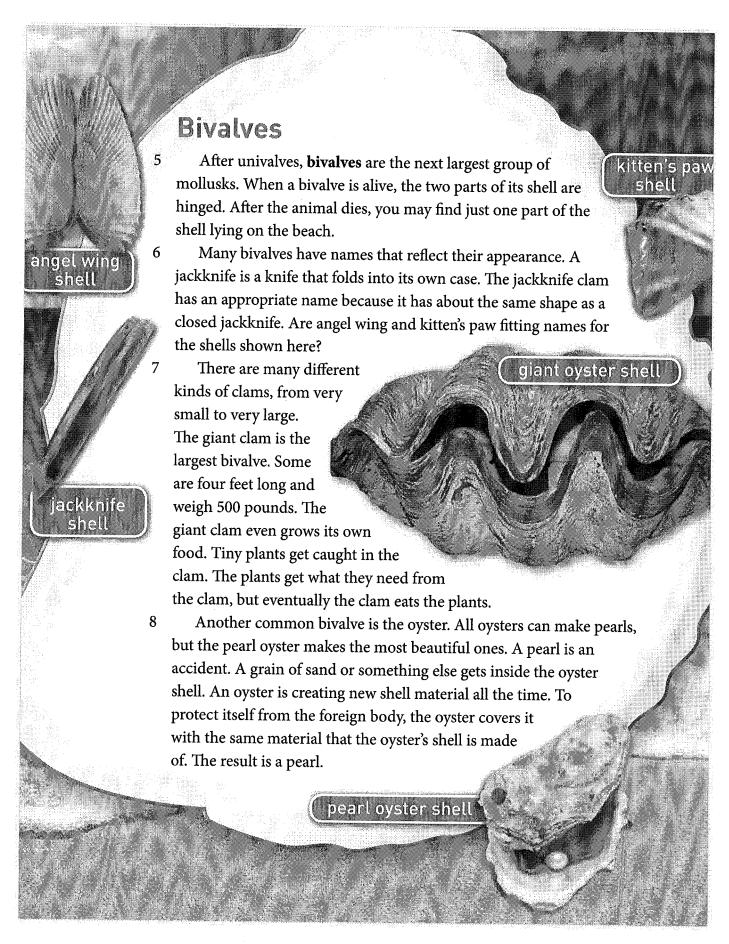


Write Use the space below to write your answer to the question on page 207.

4	Short Response Write a definition of the word <u>subterranean</u> . Identify the context clues you found. Describe the strategy you used to figure out the meaning of the word. Use details from the text to support your response.







- **Think** Use what you learned from reading the science text to respond to the following questions.
- Read the sentence from paragraph 1 in the passage.

Their shells save them from storms or <u>predators</u> such as starfish, birds, and otters.

What does the author suggest to the reader by using the word <u>predators</u>? Pick **two** choices.

- A Predators can harm some animals.
- **B** Predators need to find shelter from storms.
- C An animal's shell helps protect it.
- D All predators have skeletons.
- **E** When the animal dies, the shell remains.
- This question has two parts. First, answer Part A. Then answer Part B.

Part A

What is the meaning of the word <u>iridescent</u> as it is used in paragraph 4?

- A not letting light through
- B easy to notice or understand
- **C** shining with many varying colors
- D a small amount of something

Part B

Which phrase from the passage helps the reader understand the meaning of <u>iridescent</u>?

- A "next largest group of mollusks"
- **B** "have small holes in their shells"
- C "the inside of an abalone shell"
- D "gleams with different rainbow colors"

This question has two parts. First, answer Part A. Then answer Part B.

Part A

What is the meaning of the word <u>bivalve</u> as it is used in paragraph 5?

- A having a hard outer shell
- **B** having a shell with two pieces
- C having a soft outer shell
- D having a shell that is all one piece

Part B

Underline the **two** phrases in paragraph 5 that **best** support your answer in Part A.

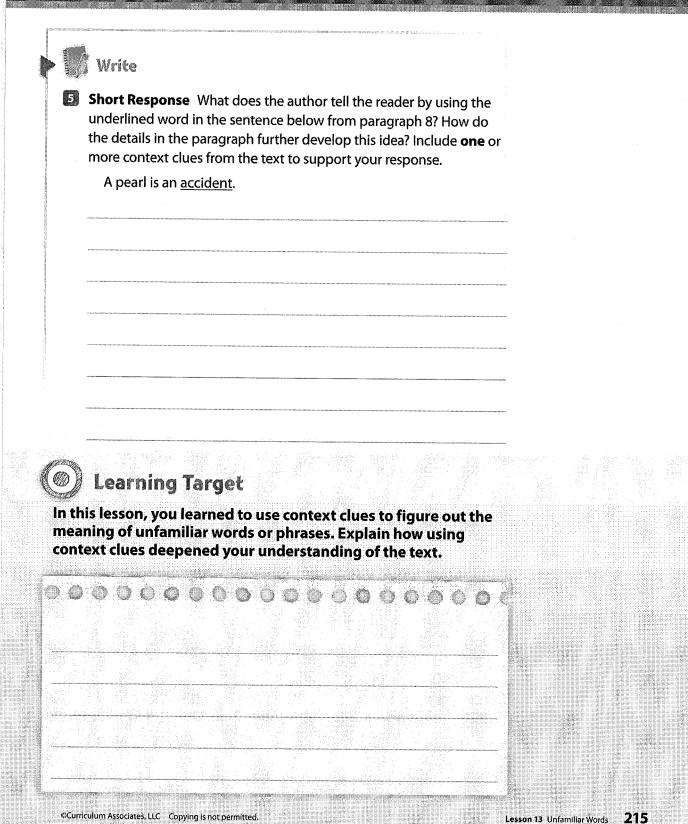
After univalves, **bivalves** are the next largest group of mollusks. When a bivalve is alive, the two parts of its shell are hinged. After the animal dies, you may find just one part of the shell lying on the beach.

Read the sentence from the passage.

The jackknife clam has an <u>appropriate</u> name because it has about the same shape as a closed jackknife.

What does the author tell the reader by using the word <u>appropriate</u>? Pick **two** choices.

- A Bivalves are the largest group of mollusks.
- **B** Jackknife describes the shape of the clam.
- **C** An angel wing is a good name for the clam.
- **D** Jackknife is a good name for the clam.
- **E** The clam looks like an open jackknife.
- **F** A jackknife folds into its own case.





Lesson 19 Similes and Metaphors

- **Introduction** Authors sometimes help readers imagine what one thing is like by comparing it to something else. Comparisons can help readers picture what is being described by showing how two things are alike in some way.
 - A simile makes a comparison using the word like or as. Look at these similes. The
 dog's paws are compared to dinner plates. His bark is compared to thunder.

		Simile			What It Me	ans
Alicia'	s dog, Ollie, h	ias <i>paws</i> as b	o <mark>ig</mark> as dinner p	lates.	Ollie has very big	paws.
His ba	<i>rk</i> sounds like	e thunder.			Ollie has a loud b	ark.

 A metaphor makes a comparison without using the word like or as. In this metaphor, the dog's size is compared to a mountain.

Metaphor	What It Means
Ollie is a mountain of a dog.	Ollie is a very large dog.

Guided Practice

Find the simile or metaphor in each sentence. Underline the two things being compared. Then write the meaning of the simile or metaphor.

find the two things being compared, ask yourself, How are they the same? Use your answer to figure out what each simile or metaphor means.

- Ollie's mouth was a trap that held a giant stick.
- Ollie leapt toward Alicia like a clumsy ballerina.
- 3 Ollie raced past Alicia like a strong wind.
- Suddenly, Ollie was a freight train racing into the house.

Independent Practice

For numbers 1–5, read each sentence. Then choose the correct meaning of the underlined simile or metaphor.

- The stick in Ollie's mouth was a sword, knocking over one object after another.
 - A The stick was heavy.
 - **B** The stick was dangerous.
 - **C** Ollie was dangerous.
 - **D** The stick was made of metal.
- The plates on the table became flying saucers that Alicia had to dodge.
 - **A** Flying saucers came from outer space.
 - **B** Alicia had to play dodge ball.
 - **C** Alicia had to fly across the kitchen.
 - **D** Plates flew through the air.
- Salad covered the floor <u>like a large</u> blanket.
 - A The salad was warm.
 - **B** The salad tasted awful.
 - C There was a large blanket on the floor.
 - **D** A layer of salad covered the floor.

- The floor was as sticky as glue.
 - **A** Glue covered the floor.
 - **B** The floor was a glue stick.
 - **C** The floor was very sticky.
 - **D** Glue made the floor sticky.
- Alicia was a whirlwind as she cleaned up the mess.
 - A Alicia spun wildly.
 - **B** Alicia worked quickly.
 - **C** Alicia was getting tired.
 - **D** Alicia was breathing hard.

WORDS TO KNOW

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

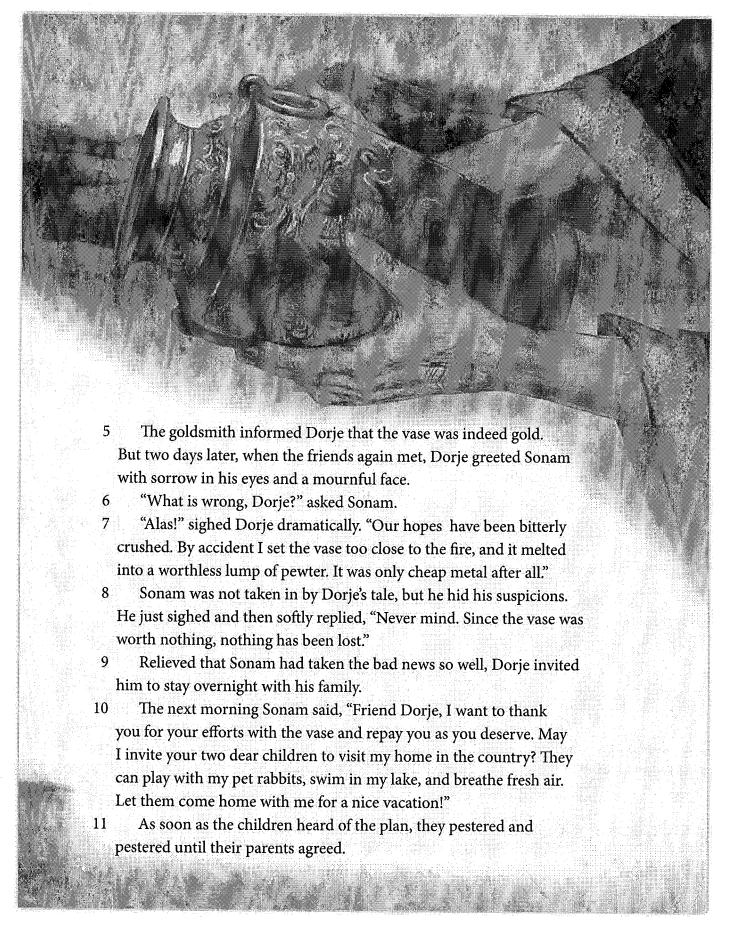
- genuine
- recent
- pardon

A GOUGEI VESS and Two Bright Monkeys

adapted from a Tibetan folktale

- Long ago in Tibet, two friends named Dorje and Sonam hiked through the mountains looking to find a rare plant root used in medicines. They searched and dug for most of the day, with no results. Suddenly a clang rang out! Dorje's spade had hit something hard! Eagerly digging, the men unearthed a large vase.
- 2 "Surely this is pure gold!" Sonam exclaimed, as he brushed off the dirt. He held up the rare treasure, which shimmered in the bright sunlight. "We must have the touch of Midas," Sonam joked.
- "Not so fast," Dorje said thoughtfully. Then a sly look crept across his face. "Before we start living like kings, we should test the vase," he added. "Remember, all that glitters is not gold. As it happens, I know a man who makes gold jewelry. If he tells me the vase is genuine, I will sell it, and then you and I will share the money."
- Trusting his friend, Sonam gave Dorje the vase. The two friends parted, agreeing to meet in two days to divide any profits from the sale of the vase.









- Soon Sonam set off for home with the children for company. Eventually they came to a place called Monkey Hill, the home of many wild monkeys. Sonam captured two young creatures and put them in a small cage. "We will take these little fellows home as pets. You can play with them if you treat them kindly," he explained. "I will name a monkey after each of you, we'll teach them tricks, and they will be your twins!"
- Quick learners, the young monkeys soon imitated the way the children tilted their heads or moved in a certain way. Sonam and the children spent many hours together, laughing at the way the monkeys mimicked whatever the children did.
- Then came the last day of vacation. Sonam gave each child a basket and shooed them outside. "Walk up the mountain to gather berries and fruits," he said. "We will surprise your father with a tasty treat before you return home."
- 15 Then Sonam waited. Hearing Dorje approach, he sat down with the monkeys. Holding each one gently, he put on a tragic face.
- "What is wrong, my friend?" asked Dorje.
- 17 "Alas!" sighed Sonam. "These are now your lovely children. You see, I took them to Monkey Hill. But I accidentally allowed them too near the beasts. Your children were transformed into these monkeys, right before my eyes!"
- Sonam called the monkeys by name, and they began their tricks. They imitated the way Dorje's children jumped, walked, and even smiled, just as they had been taught. At first, Dorje was speechless. "H-h-how can this be?" he sputtered. "Is such a thing even possible?"
- "It was a freak accident," Sonam replied. "After all, strange things do happen from time to time. Why, I know of a recent case in which a gold vase was turned into cheap metal." Then a twinkle crept into his eyes.
- "Oh!" was all Dorje could say at first. Then a look of shame and relief spread over his face. "Now I understand, my friend," he said. "Keeping the money for the vase was dishonest. I will gladly hand over what I owe you, if you will pardon my foolish greed."
- Just then, Dorje's children ran in and hugged their father. All was gradually forgiven, and Sonam and Dorje remained friends for life.
- Dorje would often retell the tale of the bright monkeys. And he would always end by saying, "I learned a valuable lesson that day. As you know, a true friend is a treasure greater than gold."

Think Use what you learned from reading the folktale to respond to the following questions.

- In Greek mythology, King Midas was granted the power to turn any object into gold simply by touching it. Why did the author use the phrase "the touch of Midas" in paragraph 2?
 - A to show that Dorje and Sonam have Midas-like powers because they turned the vase they found into gold
 - B to compare Dorje and Sonam's good fortune in finding the vase to Midas's ability to make gold
 - to show that Sonam is well educated, while Dorje is unfamiliar with the story of King Midas
 - D to compare Dorje and Sonam's rare golden treasure to similar treasures owned by rich kings like Midas
- This question has two parts. First, answer Part A. Then answer Part B.

Part A

What is the **best** meaning of the word <u>pewter</u> in paragraph 7?

- A a metal that shines like gold
- B a metal that is soft and melts easily
- C a metal that is not costly
- **D** a metal that is not useful

Part B

Underline **two** story details that support the answer to Part A.

"Alas!" sighed Dorje dramatically. "Our hopes have been bitterly crushed. By accident I set the vase too close to the fire, and it melted into a worthless lump of pewter. It was only cheap metal after all."

This question has two parts. First, answer Part A. Then answer Part B.

Part A

What is the meaning of the word <u>mimicked</u> as it is used in paragraph 13 of "A Golden Vase and Two Bright Monkeys"?

- A tried
- **B** watched
- C found
- **D** copied

Part B

Circle **one** word in the paragraph below that helps the reader understand the meaning of mimicked.

Quick learners, the young monkeys soon imitated the way the children tilted their heads or moved in a certain way. Sonam and the children spent many hours together, laughing

In the paragraphs 17 and 18 shown below from the story, one word has the following definition: "to change completely in appearance or structure." Underline the word that **best** fits the definition.

"Alas!" sighed Sonam. "These are now your lovely children. You see, I took them to Monkey Hill. But I accidentally allowed them too near the beasts. Your children were transformed into these monkeys, right before my eyes!"

Sonam called the monkeys by name, and they began their tricks. They imitated the way Dorje's children jumped, walked, and even smiled, just as they had been taught.

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Understanding of Place Value

Set A

Write the number 78,215 in the place-value chart.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
				POPPER PROPERTY AND	

Write 78,215 in expanded form and word form.

Write the number 540,632 in the place-value chart.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
аменты при спертите и населения в при					

Write 540,632 in expanded form and word form.

Set B

3 Show different ways to make 25,302.

_____ thousands + _____ hundreds + _____ ones

_____ hundreds + _____ ones

_____ ones

4 Show different ways to make 708,496.

_____ hundred thousands + _____ thousands + ____ hundreds +

_____ tens + ____ ones

_____thousands + _____hundreds + _____tens + ____ones

_____ hundreds + _____ tens + ____ ones

Understanding of Place Value continued

Name: _____

Set B continued

5 Show different ways to make 492,623.

_____ ten thousands + ____ thousands + ____ hundreds + ____ tens + ___ ones

_____ thousands + _____ tens + ____ ones

_____ hundreds + _____ ones

6 Write 841,620 in three different ways.

Why do both of these show 27,974? 20,000 + 7,000 + 900 + 70 + 4

27 thousands + 97 tens + 4 ones

Comparing Multi-Digit Numbers

Set A

Write the symbol that makes each statement true. Use >, <, or =.

- 1 23,230 _____ 2,323 2 33,003 _____ 33,030 3 9,999 ____ 10,000

- 4 40,404 _____ 40,040 5 52,177 ____ 52,771 6 421,073 ____ 412,730

Set B

7 Circle all the numbers that are less than 78,265.

78,000

79,000

70,000

80,000

78,200

78,300

8 Circle all the numbers that are less than 45,763.

46,000

40,000

50,000

45,700

45,800

45,000

9 Circle all the numbers that are greater than 108,427.

108,000

108,400

108,500

109,000

108,430

108,420

10 How did you solve problem 7?

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Name: _____

Round each number to the nearest ten.

1 72

2 172

3 2,572

4 101,372

Round each number to the nearest hundred.

5 180

6 1,180

7 56,180

8 980

9 1,980

10 56,980

Round each number to the nearest thousand.

11 7,750

12 17,750

13 25,750

14 70,750

Round each number to the nearest ten thousand.

15 65,321

16 165,321

17 185,321

18 205,321

19 Round 307,451 to each place value given below.

to the nearest thousand: _____

to the nearest hundred: _____

to the nearest ten: _____

Using Strategies to Add

Name: _____

Add using different strategies.

10 What strategies did you use to solve the problems? Explain.

11 Check your answer to problem 6 by solving it with a different strategy. Show your work.

Using the Standard Algorithm to Add Greater Numbers

Name:

Estimate the sum of each addition problem to check if the student's answer is reasonable. If not, cross out the answer and write the correct answer.

Addition Problems	Student Ansv	vers
8,997 + 2,301	31,998 11,298	Estimate: 9,000 <u>+ 2,000</u> 11,000
23,411 + 35,507	12,918	
72,418 + 41,291	113,709	
67,802 + 3,443	10,225	
5,188 + 9,024	6,112	

Using the Standard Algorithm to Add Greater Numbers continued

Name: _____

Addition Problems	Student Answers
21,822 + 75,333	97,155
1 73,333	
60,125 + 69,205	75,330
	
4,899 5,224	108,209
+ 9,296	

How does estimating an addition problem help you know if an answer is reasonable?

2 Can an answer be incorrect even if it looks reasonable? Explain.

Using Strategies to Subtract

Name: _____

Subtract.

4 What strategy did you use to find the differences for problem 2? Explain.

How could you check your answer to one of the problems using another strategy?

Using the Standard Algorithm to Subtract Greater Numbers

Name: _____

Estimate. Circle all the problems with differences between 30,000 and 60,000. Then find the differences of only the circled problems.

- Use estimation and addition to check one of your answers. Show your work.
- How does checking with addition compare with checking using estimation?

Multiplication in Word Problems

Name:

Use a strategy of your choice to solve each problem.

The library has 5 mystery books on a shelf. It has 4 times as many fiction books on another shelf. How many fiction books are on the shelf?

There are _____ fiction books on the shelf.

Violet has 3 markers. She has 6 times as many colored pencils as markers. How many colored pencils does she have?

Violet has _____ colored pencils.

Tasha used 8 tomatoes to make salsa. She used 4 times as many tomatoes to make sauce. How many tomatoes did Tasha use to make sauce?

Tasha used ______ tomatoes to make sauce.

There are 9 school buses in the parking lot. There are 6 times as many cars as school buses in the parking lot. How many cars are in the parking lot?

There are _____ cars in the parking lot.

Paul runs 2 laps around the gym. Carrie runs 6 times as many laps as Paul. How many laps does Carrie run?

Carrie runs _____ laps.

Owen draws 7 comics in April. He draws 3 times as many comics in May. How many comics does Owen draw in May?

Owen draws _____ comics in May.

There are 7 pear trees on a farm. There are 7 times as many apple trees as pear trees. How many apple trees are on the farm?

There are _____ apple trees.

There are 8 vases at an art show. There are 9 times as many paintings as vases at the art show. How many paintings are at the art show?

There are _____ paintings at the art show.

9 Write and solve a word problem for this equation: $5 \times 6 = ?$

Modeling Multi-Step Problems

Write an equation to represent each problem. Show your work.

- The Lopez family goes to the movies. They buy 2 adult tickets for \$6 each and 3 child tickets for \$4 each. Write an equation to represent how much money the family spends on movie tickets, t.
- 2 Grace earns \$5 each time she walks her neighbor's dog. She walks the dog 5 times in one week. Then she spends \$7 on a book and \$9 on a building set. Write an equation to represent how much money Grace has left, m.

- During the basketball game, Mika makes 3 baskets worth 2 points each, 2 baskets worth 3 points each, and 2 free throws worth 1 point each. Write an equation to represent how many points Mika scores, p.
- Will has 20 pounds of apples. He makes 2 batches of applesauce that use 4 pounds each, one batch of apple butter that uses 6 pounds, and he uses 3 pounds to make juice. Write an equation to represent how many pounds of apples Will has left, p.

- 5 What strategies did you use to write an equation?
- Is there another way you could write one of your equations? Could you write it as two equations? Explain.

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Name:

Write and solve an equation for each problem. Show your work.

- Tasha spends 25 minutes reading on Wednesday night. She spends 17 more minutes reading on Thursday than she did on Wednesday. Write and solve an equation to find how many minutes Tasha spent reading on Wednesday and Thursday nights.
- 2 Erik has 2 bags of bird seed. One bag has 10 pounds of seed, and the other bag has 8 pounds of seed. He fills 7 bird feeders with 2 pounds each. Write and solve an equation to find how many pounds of bird seed are left.

Tasha spent _____ minutes reading.

There are _____ pounds left.

- There are 15 boys and 19 girls in math club. 4 Frankie earns \$5 each time he babysits The tables in Mrs. Miller's classroom seat 4 students each. Write and solve an equation to find how many tables Mrs. Miller will need.
 - his little sister. He has saved \$30. Frankie wants to save \$52 to buy a new skateboard. Write and solve an equation to find how many more times Frankie will need to babysit.

Mrs. Miller will need _____tables.

Frankie will need to babysit _____ more times.

How can you estimate to check one of your answers? Show your work.

Multiplying a Three-Digit Number by a One-Digit Number

Find the product.

$$405 \times 3 =$$
 $410 \times 3 =$

What pattern do you notice in problem 2? How could it help you solve a problem such as 297×2 ?

8 Choose problem 4, 5, or 6. Explain how you could check your answer.

Multiplying a Four-Digit Number by a One-Digit Number

Estimate. Circle all the problems that will have products between 18,000 and 32,000. Then find the exact products of only the problems you circled. Show your work.

7,218
$$\times$$
 4 = _____

12
$$3,618 \times 7 =$$

13 What strategies did you use to solve the problems? Explain.

Multiplying by Two-Digit Numbers

Name: _____

Estimate each multiplication problem to check if the student's answer is reasonable. If not, cross out the answer and write the correct answer.

Multiplication Problems	Student Ans	wers
4 × 17	2,380 238	Estimate: 14 × 20 = 280
× 19	285	
1 × 18	3,078	
5 × 13	28	

Multiplying by Two-Digit Numbers continued

Name: _____

Multiplication Problems	Student Answers
13 × 31	403
18 × 17	3,056
	3,030
21 × 15	
.1 × 15	3,015
•	
2 × 22	2,604
,	·

How does estimating a multiplication problem help you know if an answer is reasonable?

Division in Word Problems

Name: _____

Use a strategy of your choice to solve each problem.

1 There are 5 times as many tulips as rose bushes in a garden. There are 15 tulips. How many rose bushes are in the garden?

There are _____ rose bushes in the garden.

There are 18 blueberries in a bowl. There are 3 times as many blueberries as strawberries in the bowl. How many strawberries are in the bowl?

There are ______ strawberries in the bowl.

A tile pattern has 6 times as many white squares as gray squares. There are 48 white tiles in the pattern. How many gray tiles are there?

There are _____ gray tiles in the pattern.

Terik sees 42 stars in the sky on Tuesday night. This is 7 times as many stars as he sees on Monday night. How many stars does Erik see on Monday night?

Erik sees _____ stars on Monday night.

2 Kelly has 2 times as many quarters as dimes. She has 18 quarters. How many dimes does she have?

Kelly has _____ dimes.

4 Amanda swims for 16 minutes. This is 4 times as many minutes as Julio swims. How many minutes does Julio swim?

Julio swims _____ minutes.

6 Leah has 3 times as many country songs as she has pop songs on her MP3 player. She has 27 country songs. How many pop songs does Leah have?

Leah has _____ pop songs.

Lucas spends 72 minutes cleaning his room. This is 8 times as long as it takes him to wash the dishes. How long does it take Lucas to wash the dishes?

It takes Lucas _____ minutes to wash the dishes.

9 Write and solve a word problem for this equation: $6 \times n = 54$

Dividing with Arrays and Area Models

The answers to problems 1–12 are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

10
$$728 \div 8 =$$
 _____ 11 $459 \div 9 =$ ____ 12 $366 \div 6 =$ ____

What strategies did you use to solve the problems?

Explain how to use multiplication to check your answer to problem 10.

Answers

Dividing with Estimation and Area Models

Name: _____

Check the student's answer by multiplying the quotient by the divisor and adding the remainder. If an answer is incorrect, cross out the answer and write the correct quotient, including the remainder.

Student Answ	CIS
749 R.1 159 R.1	Check: 149 × 4 = 596 596 + 1 = 597
69 R 1	
38 R 2	
57 R 3	
58 R 8	
31 R 5	
85 R 4	
169 R 2	
	159 R 1 69 R 1 38 R 2 57 R 3 58 R 8 31 R 5

Dividing with Estimation and Area Models continued

Name: _____

1 Write a word problem that could be solved by one of the problems.

2 Can an answer be incorrect even if it looks reasonable? Explain.

Dividing Four-Digit Numbers

Estimate. Circle all the problems with quotients between 500 and 1,500. Then find the exact quotients of only the problems you circled.

10
$$5,018 \div 7 =$$
 11 $8,127 \div 6 =$ 12 $6,155 \div 3 =$

What strategies did you use to estimate the quotients? Explain.

14 Check one of your answers by solving it with a different strategy. Show your work.

Understanding of Equivalent Fractions

Write the missing numbers in the boxes to make each equation true.

$$\frac{2}{3} \times \frac{2}{18} = \frac{12}{18}$$

$$\frac{5}{6} \times \frac{25}{30} = \frac{25}{30}$$

$$4 \frac{2}{3} \times \frac{\boxed{}}{3} = \frac{6}{\boxed{}}$$

$$\frac{3}{8} \times \frac{5}{3} = \frac{15}{3}$$

$$\boxed{6} \ \frac{5}{6} \times \boxed{\boxed{}} = \boxed{\boxed{}}$$

Which strategies did you use to solve the problems? Explain why.

Using Common Numerators and Denominators

Name: ______

Compare the fractions. Write <, >, or =.

 $1 \frac{3}{4} \qquad \frac{3}{8}$

 $\frac{2}{3}$ $\frac{4}{5}$

 $\frac{1}{5}$ $\frac{2}{10}$

- $\frac{2}{10}$ $\frac{23}{100}$
- $\frac{7}{8}$ $\frac{3}{4}$

 $\begin{array}{c} 6 \\ \frac{7}{12} \end{array} \bigcirc \begin{array}{c} \frac{5}{6} \end{array}$

 $7\frac{10}{12}$ $\frac{5}{6}$

 $8\frac{53}{100}$ $\frac{1}{2}$

 $9 \frac{2}{8} \qquad \frac{9}{12}$

 $\frac{1}{6}$ $\frac{3}{12}$

11 $\frac{4}{5}$ $\frac{77}{100}$

12 $\frac{1}{3}$ $\frac{5}{12}$

 $\frac{1}{4} \qquad \frac{2}{12}$

14 $\frac{9}{10}$ $\frac{90}{100}$

15 $\frac{2}{3}$ $\frac{3}{6}$

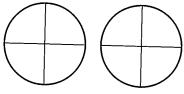
16 Show a model you can use to check your answer to problem 12.

Understanding of Fraction Addition and Subtraction

1 Label the number line and use it to show $\frac{3}{4} + \frac{3}{4}$.

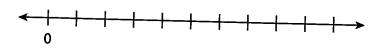


Shade the area model to show $\frac{3}{4} + \frac{3}{4}$.

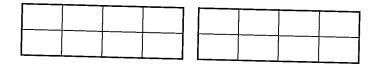


Write the sum. $\frac{3}{4} + \frac{3}{4} =$

2 Label the number line and use it to show $\frac{10}{8} - \frac{4}{8}$.



Show $\frac{10}{8} - \frac{4}{8}$ on the area model.



Write the difference. $\frac{10}{8} - \frac{4}{8} =$

Understanding of Fraction Addition and Subtraction continued

Name: _____

What type of model do you like best for showing fraction addition and subtraction? Explain why.

Compare subtracting $\frac{10}{8} - \frac{4}{8}$ to subtracting 10 - 4. How are they alike? How are they different?

Adding Fractions

Write the missing numbers in the boxes to make each addition problem true.

$$\frac{1}{8} + \frac{4}{8} = \frac{1}{1}$$

$$\frac{1}{10} + \frac{4}{10} = \frac{}{}$$

$$4 \frac{4}{12} + \frac{7}{12}$$

$$\frac{4}{6} + \frac{2}{6} = \frac{7}{6}$$

$$\frac{4}{3} + \frac{2}{3} = \frac{7}{3}$$

$$7 + \frac{2}{4} = \frac{5}{4}$$

$$8 \frac{ }{10} + \frac{2}{10} = \frac{5}{10}$$

$$9 + \frac{2}{8} = \frac{5}{8}$$

10
$$\frac{}{6} + \frac{2}{6} = \frac{}{6}$$

11
$$\frac{1}{5} + \frac{1}{5} = \frac{1}{5}$$

$$\frac{4}{10} + \frac{1}{10} = \frac{1}{10}$$

Write a number from 1–12 in each box so that the addition problem is true.

$$\frac{\boxed{}}{12} + \frac{5}{\boxed{}} = \frac{\boxed{}}{12}$$

Subtracting Fractions

Solve each problem.

- Sammy has $\frac{4}{5}$ of his art project left to paint. He paints $\frac{2}{5}$ of the project. What fraction of the project is left to paint?
- Marianne has $\frac{6}{8}$ of a yard of green ribbon. She uses $\frac{3}{8}$ of a yard for a craft project. How much green ribbon is left?

- Yuna plans to run 1 mile. She has run $\frac{7}{10}$ of a mile so far. What fraction of a mile does she have left to run?
- Alex and Brady are helping to pack books into a box. Together they pack $\frac{7}{12}$ of the books. Alex packs $\frac{4}{12}$ of the books. What fraction of the books does Brady pack?

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Name: _____

- On Monday, Adam walks $\frac{3}{10}$ of a mile to the store and then $\frac{4}{10}$ of a mile to the park. How far does he walk in all?
- Javier has $\frac{7}{8}$ of a cup of flour. He uses $\frac{3}{8}$ of a cup in a recipe. How much flour does Javier have left?

- Shawna practices piano for $\frac{4}{6}$ of an hour and takes a break. Shawna then practices for $\frac{2}{6}$ of an hour more. How long does Shawna practice in all?
- 8 Kailee has finished $\frac{4}{5}$ of her math homework so far. What fraction of her math homework does she have left to finish?

9 Explain one way to check your work to problem 2.

Decomposing Fractions

Find three ways to decompose each fraction into a sum of other fractions with the same denominator.

1
$$\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \underline{\qquad \qquad }$$

 $\frac{3}{4} = \frac{2}{4} + \underline{\qquad \qquad }$
 $\frac{3}{4} = \frac{1}{4} + \underline{\qquad \qquad }$

2
$$\frac{7}{8} = \frac{6}{8} +$$
 $\frac{7}{8} = \frac{5}{8} +$ $\frac{7}{8} = \frac{4}{8} +$ $\frac{1}{8} = \frac{4}{8}$

3
$$\frac{6}{5} = \underline{\qquad} + \frac{3}{5}$$

 $\frac{6}{5} = \frac{2}{5} + \underline{\qquad} + \underline{\qquad}$
 $\frac{6}{5} = \frac{2}{5} + \frac{2}{5} + \underline{\qquad} + \underline{\qquad}$

$$\frac{5}{6} = \underline{\qquad} + \frac{3}{6}$$

$$\frac{5}{6} = \frac{1}{6} + \underline{\qquad} + \underline{\qquad}$$

$$\frac{5}{6} = \frac{1}{6} + \frac{1}{6} + \underline{\qquad} + \underline{\qquad} + \underline{\qquad}$$

$$\frac{9}{12} = \underline{\qquad} + \frac{5}{12}$$

$$\frac{9}{12} = \frac{3}{12} + \frac{3}{12} + \underline{\qquad} + \underline{\qquad} + \underline{\qquad}$$

$$\frac{9}{12} = \underline{\qquad} + \underline{\qquad} + \underline{\qquad}$$

$$\frac{9}{12} = \underline{\qquad} + \frac{5}{12}$$

$$\frac{9}{12} = \frac{3}{12} + \frac{3}{12} + \underline{\qquad} + \underline$$

Describe your strategy for finding the missing numbers.