Fourth Grade ELA & Mathematics **Week 2 Packet**



First & Last Name: _____

Teacher:_____

Grade:_____

School:_____

Genre: Science Text

Read

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

- series
- hinged

foreign



1 If you walk along the seashore, you will probably see many kinds of shells. Seashells were once the homes of live animals. The animals that live inside shells have soft bodies, so they need their shells to protect them from harm. Their shells save them from storms or predators such as starfish, birds, and otters. Shells also give the animals a shape. In that way, shells are like skeletons on the outside of the body. When the animals die, the shells remain.

2 Creatures with shells belong to a group of animals called **mollusks**. Not all mollusks have shells. Of the mollusks that do have shells, there are two main groups.



worm shell

3

slipper shell

helmet shell

Univalves

- More than three-quarters of all mollusks are **univalves**, a word that means "having a shell that is all one piece." The shell is coiled, and inside the coil is the soft body of the mollusk. Many univalves are named for their appearance. Look at the examples above. Does the helmet shell remind you of a helmet? How about the worm and slipper shells?
- 4 Some univalves have small holes in their shells. Abalone shells have a series of holes. Water and wastes are expelled, or pushed out, through the holes. The inside of an abalone shell gleams with different rainbow colors. This iridescent substance is called mother-of-pearl.

abalone shell

Bivalves

5

6

8

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.

Many bivalves have names that reflect their appearance. A jackknife is a knife that folds into its own case. The jackknife clam has an appropriate name because it has about the same shape as a closed jackknife. Are angel wing and kitten's paw fitting names for the shells shown here?

There are many different kinds of clams, from very small to very large. The giant clam is the largest bivalve. Some are four feet long and weigh 500 pounds. The giant clam even grows its own food. Tiny plants get caught in the clam. The plants get what they need from the clam, but eventually the clam eats the plants.

Another common bivalve is the oyster. All oysters can make pearls, but the pearl oyster makes the most beautiful ones. A pearl is an accident. A grain of sand or something else gets inside the oyster shell. An oyster is creating new shell material all the time. To protect itself from the foreign body, the oyster covers it with the same material that the oyster's shell is made of. The result is a pearl.

pearl oyster shell



giant oyster she

kitten's paw

jackknife shell___

angel wing

shell

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

1 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.

2 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"

I 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.

4 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.



5 Short Response What does the author tell the reader by using the underlined word in the sentence below from paragraph 8? How do the details in the paragraph further develop this idea? Include **one** or more context clues from the text to support your response.

A pearl is an <u>accident</u>.



Learning Target

In this lesson, you learned to use context clues to figure out the meaning of unfamiliar words or phrases. Explain how using context clues deepened your understanding of the text.

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Lesson 13 Unfamiliar Words 215





As the annual school track meet approached, all I could think about was defeating Anna Banks. For the past three years, she'd beaten me in the 400-meter run, and always by just a step. No longer would I be satisfied with second place, however. Dissatisfied, I planned to win this year, and I couldn't think about anything else. I became obsessed with beating Anna. My thoughts focused on one goal all the time—winning. Naturally, I did more than just think. I practiced my starts daily, and I ran and ran and ran.

On the day of the race, I was eager to compete, and by the time we gathered at the starting line, I was really pumped. BAM—the starting gun fired and we were off! Anna and I quickly sprinted ahead of the other racers. When we shot across the finish line, I wasn't even certain who'd won at first. Then I heard the announcer—it was me!

Still breathing hard, Anna rushed over, smiling, and shook my hand. "You were great!" she declared. "Good race!" Right then, I realized that

I'd been looking at the situation all wrong. Before, I'd been thinking of Anna as if she were some powerful enemy out to destroy me. But Anna wasn't my nemesis¹ at all; she had no urge to crush me. In fact, she had given me an opportunity to become a better sprinter than I ever would have been without her.

Close Reader Habits

Circle unfamiliar words and phrases. **Underline** phrases that give you clues to the word meanings.

¹nemesis: a powerful rival; from the Greek goddess who punished overconfidence



1

2

3

Explore

How do context clues help you figure out the meaning of unfamiliar words in "Out to Win"?

Think

1 Complete the chart below to show what you have figured out about the meanings of the words.

Context clues can appear before or after the sentence having an unfamiliar word.

Unknown Word	Context	Possible Meaning	Clues
dissatisfied			
obsessed			
nemesis			

Talk

2 Explain the meaning of the word <u>opportunity</u> (paragraph 3). What context clues help you understand what the word means?

Write

3 Short Response Explain the meaning of <u>opportunity</u> (paragraph 3). Also include the context clues that helped you figure out the meaning of the word. Use the space provided on page 276 to write your response.

HINT Reread paragraph 3 to find all the clues to the meaning of <u>opportunity</u>.



Modeling Multi-Step Problems

Name:

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?

⁶ Is there another way you could write one of your equations? Could you write it as two equations? Explain.

Solving Multi-Step Problems

Na	ame:
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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 15 boys and 19 girls in math club. 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. There are _____ pounds left.

 Frankie earns \$5 each time he babysits 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.

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



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

Name:	_
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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.

1 8,491 × 2 =	2 6,148 × 4 =	3 7,062 × 5 =
4 4,362 × 5 =	5 1,789 × 8 =	6 2,206 × 9 =
7 7,218 × 4 =	8 9,821 × 3 =	9 4,762 × 6 =
10 6,739 × 6 =	11 7,964 × 4 =	12 3,618 × 7 =
13 What strategies did you use	to solve the problems? Explain.	

Name: ____

Multiplying by Two-Digit Numbers

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 Answers			
14 × 17	2,380 238	Estimate: 14 × 20 = 280		
15 × 19	285			
21 × 18	3,078			
16 × 13	28			

Multiplying by Two-Digit Numbers continued

Name:

Multiplication Problems	Student Answers
13 × 31	403
18 × 17	3,056
21 × 15	3,015
12 × 22	2,604
1 How does estimating a multi	plication problem help you know if an answer is reasonable?

Division in Word Problems

Name: ____

Use a strategy of your choice to solve each problem.

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.

³ 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.

Frik 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.

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

Julio swims _____ minutes.

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.

⁸ 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

Name: _

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

1 606 ÷ 2 =		2 606 ÷ 3 =		3 903 ÷ 3 =		
4 408 ÷ 8 =		5 243 ÷ 3 =		6 721 ÷ 7 =		
7 545 ÷ 5 =		8 488 ÷ 8 =		9 816 ÷ 4 = .		
10 728 ÷ 8 =		11 459 ÷ 9 =		12 366 ÷ 6 =		
13 What strategies did you use to solve the problems?						
14 Explain how	w to use multipli	cation to check y	our answer to pi	roblem 10.		
Answers						
91	303	61	202	204	109	
81	51	301	103	51	61	



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.

Division Problems	Student Answers	
637 ÷ 4	7 49 R.1 159 R 1	Check: 149 × 4 = 596 596 + 1 = 597
139 ÷ 2	69 R 1	
188 ÷ 5	38 R 2	
344 ÷ 6	57 R 3	
458 ÷ 9	58 R 8	
222 ÷ 7	31 R 5	
692 ÷ 8	85 R 4	
479 ÷ 3	169 R 2	

Dividing with Estimation Name: ____ and Area Models continued 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.