Erie Rise Leadership Academy Charter School

Parent Lesson Plan

[PARENT LESSON PLAN]

4TH GRADE BOYS WEEK 2 MARCH 30-APRIL 3

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INTRODUCTION

Hello Parents!

Included in this packet is a week's worth of printed ELA and Mathematics work for your students while they are at home. Each day is separated into the 2 content areas for the printed material. If you have access to the digital curriculum, a pacing guide is also provided outlining the digital component assigned for each specific day. If you need technology, please contact the school and we can make it available to you. Also remember, USATestPrep is always an option!

We know some of this material maybe be challenging, but try your best to complete it! Hopefully we will see you back in the classroom soon and will be able to go over all the information.

Printed materials may be turned into to the distribution centers once completed, but it is not a requirement.

Mrs. Will will be available on Youtube Live every day from 10AM-11AM to assist with curriculum questions and/or any resource questions for parents or students.

Stay safe and healthy everyone!

Missing seeing everyone's smiling face! Remember to wash your hands!

Educationally Yours, Mrs. Veronica Will

Distribution Sites/Information

Food/Curriculum distribution will take place at:

Erie Rise Leadership Academy Charter School 1006 West 10th Street Erie, PA 16502

Leadership Team

Mr. Terry Lang, CEO: 814 812-0503

Mrs. Veronica Will, Principal: 814 873-5158

Mr. Aubrey Favors, HR: 814 812-3026

Mr. Kirk Paskell, Transportation: 814 566-0002

Mr. Homer Smith, PR: 814 392-3413

Mrs. Pearl Jeffries, Social Services: 814 722-5056

DIGITAL LESSON PACING GUIDE

ConnectED Instructions

Please see attached instructions for accessing the digital curriculum.

USATestPrep Instructions

Please see attached instructions for accessing this test-prep site.

If you have access to high speed internet, below are the assignments the teachers have assigned for the various content areas:

USA Test Prep Week 1 Assignments:

Math Assignments: Math 3/30, Math 3/31, Math 4/1, Math 4/2, Math 4/3

ELA Assignments: ELA 3/30, ELA 3/31, ELA 4/1, ELA 4/2, ELA 4/3

Science Assignments: Science 3/30, Science 3/31, Science 4/1, Science 4/2, Science 4/3

Pacing Guide for Online Curriculum

	Monday	Tuesday	Wednesday	Thursday	Friday	
ELA/Writing	<u>Lesson:</u>	<u>Lesson:</u>	<u>Lesson:</u>	Lesson:	Lesson:	
	Unit 4					
	Lesson 5					
	Day 1	Day 2	Day 3	Day 4	Day 4	
	March 30	March 31	April 1	April 2	April 3	
Math <u>Lesson:</u>		<u>Lesson:</u>	<u>Lesson:</u>	<u>Lesson:</u>	<u>Lesson:</u>	
	Chapter 7					
	Lesson 7	Check my	Lesson 8	Lesson 9	Review	
	March 30	Progress	April 1	April 2	April 3	
		March 31	****			

Monday, March 30th Unit 4 Lesson 5 Day 1

- Read Story
- Go over Spelling Words
- Go over Vocabulary Words
- Write Spelling Words 4 times each

Tuesday March 31st

Unit 4 Lesson 5 Day 2

- Reread Story
- Review Spelling Words
- Review Vocabulary Words
- Skills Practice Pg. 59-60
- Write 10 Spelling Word Sentences

Wednesday, April 1st

Unit 4 Lesson 5 Day 3

- Read Story
- Go over Spelling Words
- Go over Vocabulary Words
- Skills Practice pg. 61-22
- Skills Practice pg. 63-64
- Skills Practice pg. 67-68
- Write other 10 Spelling Word Sentences

Thursday, April 2nd Unit 4 Lesson 5 Day 4

- Reread story
- Review Spelling Words
- Review Vocabulary Words
- Skills Practice pg. 69-70
- Answer Text Connection and Looking Closer Questions pg. 430-431
- Read and Answer Social Studies Connect: The Creation of Nunavut Territory
 Questions pg. 432-433
- Write Vocabulary Definitions
- Write Spelling Words in ABC Order

Friday, April 3rd

Unit 4 Lesson 5 Day 5

- Reread Story
- Review Spelling Words
- Review Vocabulary Words
- Complete Assessment: Vocabulary, Comprehension, Analyzing the Selection
- Have an adult give you your Spelling Test

MATH PRINT MATERIALS

Monday, March 30th Chapter 7 Lesson 7

Reteach Worksheet Lesson 7

Homework Worksheet Lesson 7

Tuesday, March 31st

Chapter 7 Check My Progress

Check My Progress Worksheet

Wednesday, April 1st

Chapter 7 Lesson 8

Problem Solving Worksheet

My Homework Lesson 8 Worksheet

Thursday, April 2nd

Chapter 7 Lesson 9

Reteach Lesson 9 Worksheet

My Homework Lesson 9 Worksheet

Friday, April 3rd

Chapter 7 Review

Pretest Worksheet

Am I Ready? Review Worksheet

Am I Ready? Practice Worksheet

Am I Ready? Apply Worksheet

ADDITIONAL RESOURCES (EDUCATIONAL)

Included are a list of hand selected resources for students with internet to use at home.

Virtual Fieldtrips

https://docs.google.com/document/d/1SvIdgTx9djKO6SjyvPDsoGlkgE3iExmi3qh2KRRku_w/mobilebasic

VOOKS- storybooks brought to life

www.vooks.com/parent-resources

XtraMath- basic math facts

https://xtramath.org/#/home/index

GoNoodle

https://www.gonoodle.com/

ABCYa

https://www.abcya.com/grades/3

StudyJams

http://studyjams.scholastic.com/studyjams/



Adaptations in Action



Use the different sections of this letter to begin conversations with your child about what he or she is learning.

Big Idea: How do adaptations help plants and animals?

Ask your child how this week's reading selection helps him or her answer this question.

This week's reading selection: Survival at 40 Below

Summary: In the Gates of the Arctic National Park and Preserve, animals have developed a surprising number of adaptations to survive the freezing temperatures. Many of them stay cozy beneath thick fur, and some burrow underground to stay warm. One species of frog can even stop its heart to conserve energy!

DISCUSS with your child different animals that live in cold habitats.

Vocabulary Encourage your child to use these words while discussing the reading selection.

sheer	adjective	steep
grazing	verb	feeding on growing grass
cache	verb	to place or store something in a hidden or secret place
esophagus	noun	the muscular tube through which food moves from the throat to the stomach
insulating	adjective	covering or surrounding with a material that slows or stops the flow of electricity, heat, or sound
browses	verb	feeds or nibbles on
ceases	verb	comes or brings to an end; stops
vital	adjective	necessary to or supporting life
conserve	verb	to keep and protect from harm, loss, or change
prey	noun	an animal that is hunted by another animal for food
withered	adjective	dried up or shriveled

Spelling Practice these words with your child.

I. antibiotic	8. audiovisual	15. biologist
2. audible	9. auditorium	l6. biology
3. audience	10. auditory	17. biome
4. audio	II. biodegradable	18. biopsy
5. audiobook	12. biodiversity	19. biosphere
6. audiology	13. biographer	20. inaudible
7. audiotape	14. biography	

Challenge

I. microbiologist 2. audiologist 3. symbiotic

Language Arts

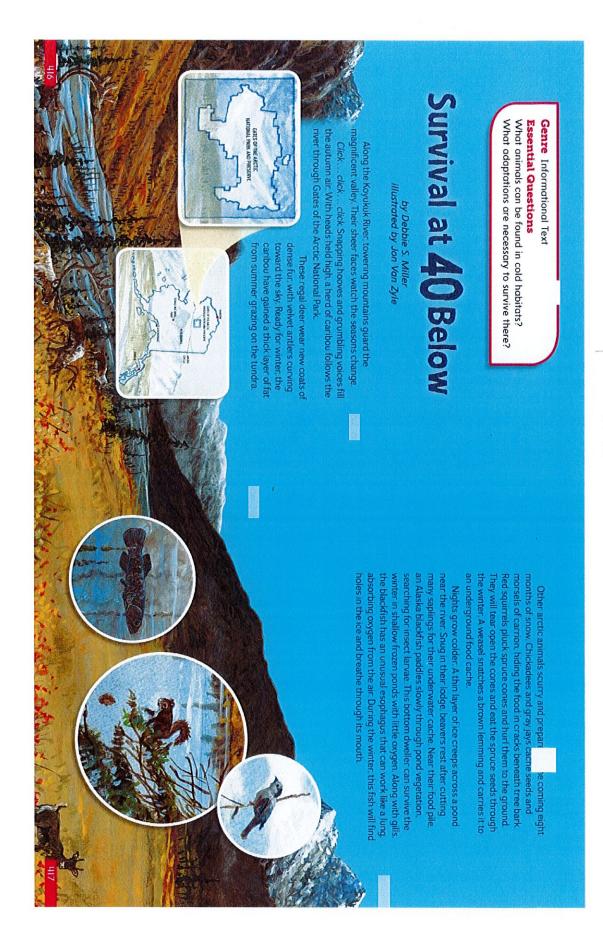
Writing: Your child will draft and revise his or her research report.

Grammar: Your child will learn about, identify, and practice using irregular verbs.

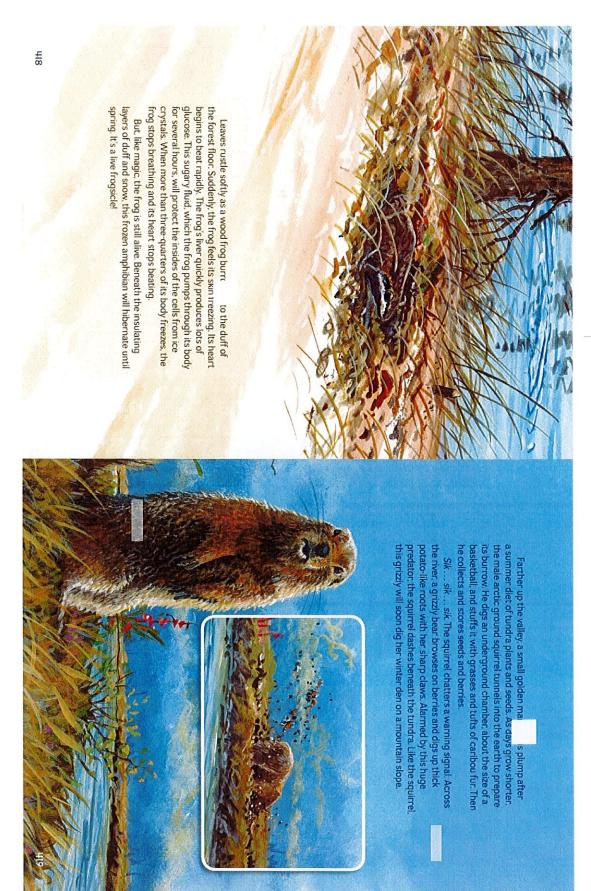
▶ GIVE your child a list of verbs, such as sit, eat, sleep, see, and grow. Then have your child identify the past-tense form for each verb. (sat, ate, slept, saw, and grew)

416-417

VSM-OUP-VPAGE



3/24/2020 VSM-OUP-VPAGE





3/24/2020 VSM-OUP-VPAGE



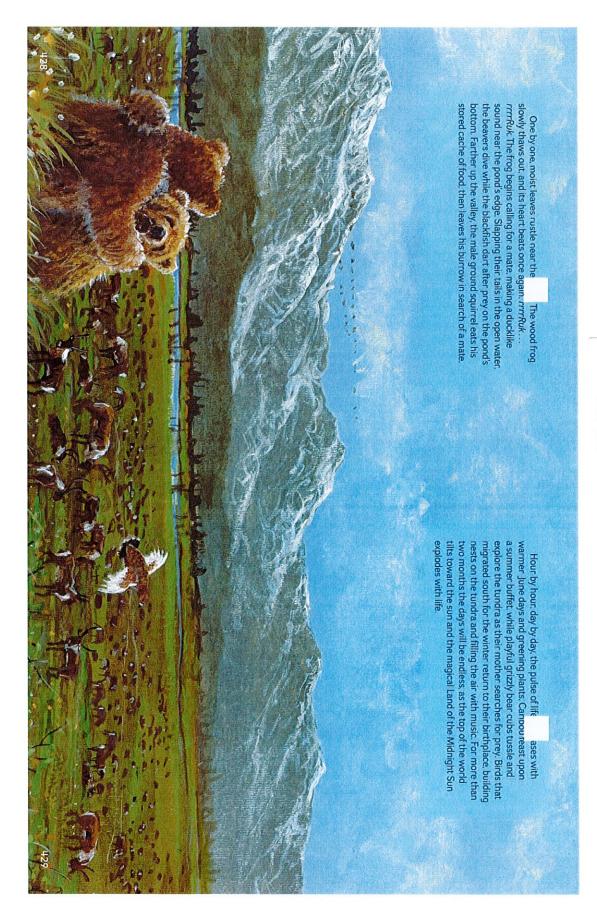
3/24/2020 VSM-OUP-VPAGE



426-427

VSM-OUP-VPAGE





430-43I

Respond

the comprehension pages as a class. questions on these You will answer

Did You Know?

the second-largest mountain range. It is is in the Brooks living on over 8 million national park in the designated wilderness acres of land. This plants and animals Preserve protects National Park and Gates of the Arctic

Compr

- winter without needing to hibernate?
- Why we sn't the mother grizzly bear provides insulation, and explain why is so important in the Arctic.
- Using information in "Masters of Illusion," animals in the summer that is not mentioned in "Survival at 40 Below"? what color change occurs for many Arctic
- 'n animal adaptation when doing things Name a way people could imitate an outside during the Arctic winter.
- during the winter? Arctic animals to limit movement

Text Connections

- 1. How do musk oxen survive the Arctic
- Give an example of an adaptation that need to eat food during the winter?
- Explain why it is necessary.
- Why is it important for so many

Look Closer

Keys to Comprehension

- 1. Infer why a cold Arctic winter with little animals, based on details in the text. snow would cause problems for many
- Compare and contrast the processes by which the wood frog and male arctic ground squirrel hibernate.

Writer's Craft

- Explain what antifreeze substances are, based on examples from the text.
- How does the author organize animal adaptation facts in "Survival at 40 Below"?

Concept Development

- With what evidence does the author support the point that during summer the Arctic "explodes with life"?
- Describe adaptations the snowshoe hare and ptarmigan have to help them survive Defense Academy" in your answer. the Arctic. Combine information from both "Survival at 40 Below" and "Animal

Write

friend describing the Arctic National your experience short letter to a Below." Write a "Survival at 40 described in late autumn Park during the visiting Gates of Imagine you are

432-433

Connect

Social

dies ⊅∰

Read this Social Studies Connection. You will answer the questions as a class.

Text Feature

Informational text often includes maps that relate to content

The Creation of Nunavut Territory

The United States and Canada both have lands in the Arctic. The Arctic has long been home to j bears, snowshoe hares, and ptarmiga...... Inuit people of the Arctic have also lived there for thousands of years. Their way of life has long been tied to the geography and climate of the land.

For many years the Canadian government left the Inuit mostly to themselves. However, increasing contact with fur traders, whalers, and other nonnative people affected the Inuit. By the 1950s, the Canadian government was encouraging the Inuit to cease their nomadic lifestyle. The government thought it would be better if the Inuit adapted to a Western lifestyle. The government built housing projects intended for Inuit families. Some Canadian leaders thought native peoples should no longer be left to themselves.

In response to all of this, the Inuit formed a national group. Among other things, the group asked the Canadian government to recognize a land claim. The claim covered parts of two Canadian provinces—the Northwest Territories and northern Quebec. It took many years, but in 1999. Canada divided the Northwest Territories. The eastern part of it, along with many nearby islands, became Nunavut. Nunavut means "our land" in Inuktitut, the Inuit language. Although still a part of Canada, Nunavut has its own territorial government. The people there continue to face many challenges. Still, Nunavut's creation honors the Inuit people's claim to Arctic lands.



- 1. About how long have the Inuit lived in the Arctic regions?
- 2. How is the creation of Nunavut an example of a government responding to the needs of individuals and groups?

. How does the creation of Nunavut allow the Inuit to govern themselves?



Go Digital

Research the history of the Athabaskan people, another native people of the Arctic. In which parts of the Arctic do they live? How did they come to live there?

#33

Vocabulary

FOCUS

Review the selection vocabulary words from "Survival at 40 Below."

browses

insulating

cache

prey

ceases

sheer vital

esophagus

withered

grazing

PRACTICE Circle the word that matches each sentence.

1. Jeff keeps his money in a secret hiding place in his room.

preu

sheer

insulating

cache

2. A fish is a tasty treat for a grizzly bear.

sheer

ceases

prey

withered

3. You will need a safety rope to climb the walls of the canyon.

insulating

sheer

grazing

conserve

4. During the drought, the corn dried up in the fields.

vital

withered

browses

conserve

5. Living things must have food and water to survive.

ceases

insulating

vital

cache

6. The cows wander the fields all day and eat grass.

grazing

sheer

withered

prey

7. As soon as the rain stops, we can continue with the game.

esophagus

browses

ceases

conserve

8. Chad swallowed the bite of apple and felt it move down his throat.

cache

insulating

grazing

esophagus

APPLY Read each sentence. Use the underlined clues to select the vocabulary word that best completes each sentence. Write the word in the blank.

9.	When the moose wants <u>a little snack</u> , it on water lilies and other plants near the water.
10.	Frank hopes that the cabin will help keep it warm in the winter.
11.	We don't like to use too many resources, so we take short showers to water.
12.	The squirrel likes to nuts for the winter; it will <u>store</u> them in the oak tree in front of our house.
13.	The museum its summer programs in September; all events and workshops \underline{end} by the 10^{th} .
14.	Because they give off the oxygen we need to live, trees and plants are to humans.
15 .	That cliff in Rocky Mountain National Park is the <u>steepest</u> rock I've ever climbed.
16.	Mice are for various kinds of hawks and are hunted by snakes and other reptiles too.
17.	The horses spend most of their time and will <u>eat grass</u> for hours a day.
18.	Not only had the marigolds <u>dried up</u> , but the daisies wereas well.

The Test

"I can't believe the test is tomorrow already!" Jaclynn exclaimed. The fear in her voice was obvious.

"I know," said Nate. "Why did we wait until the last minute to study? Now the whole task feels like a real uphill climb."

"An uphill climb? How about scaling the side of a sheer cliff a million feet tall?" Jaclynn had now moved past fear and into panic mode.

"Okay, let's try to calm down," Nate replied. "We can do this. We can memorize the parts of the digestive system. We just need a little help. Have you ever heard of a mnemonic device?"

"A nemo . . . what?"

"It's a little trick or saying you use to memorize something. You know how we use the name Roy G. Biv to remember the colors of the rainbow? That's a mnemonic device."

"Okay, I get it," Jaclynn said. Her heart had ceased its wild knocking in her chest. "So, what should we do? We have to know what each organ does. Should we make up a rhyme or poem? Wait . . . I know! How about a rap?

"That sounds fun!" Nate exclaimed. "Okay, I'll get us started . . .

"My name is Nate, and I like to graze.

Chicken fingers and apples are my usual prey.

Three times a day, I get hungry and I browse.

That food starts breaking down right here in my mouth."

"That is awesome, Nate! Jaclynn was impressed. "Okay, let me try . . .

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"Listen up, my friends, to this vital information: The esophagus is food's next location. Muscles force the grub down this super cool tube. Heading for the stomach, that food is on the move."

"Excellent! I knew you could do it!" Nate cried. "Okay, here's one more . . .

"Food is cached in the stomach for four hours flat. That organ's breaking food into proteins and fats. The fat gives insulation that you need for winter. Proteins build you up so your body won't wither."

"This is really helping," Jaclynn said. "Thanks, Nate. I feel so much better. These mnemonic devices really work. I think we should use them to study for next week's energy conservation quiz, too!"

"Absolutely!" Nate replied. "But let's stay focused on the digestive system for now. Shall we move on to the small intestine?"

Sequence

FOCUS Remember that **sequence** is the order in which events take place in a text. Time and order words, such as yesterday, in December, first, next, then, and finally, will help you identify the sequence.

PRACTICE Complete each sentence by writing a time or order word or phrase in the blank.

- 1. _____ I was feeling sick, but I felt just fine by the afternoon.
- 2. Tom began by practicing his scales on the piano; _____ he played a new song.
- 3. The school fundraiser will be on _____, only _____ the last day of classes.
- **4.** Be sure to wipe the mud off your feet _____ you come into the house.
- 5. Julio's dentist appointment is _____ and his swimming lesson
- 6. ______ Jenna began studying with a tutor, she _____ began to improve her grades.
- 7. The first song Imari sang was sad, but the _____ one was more upbeat.
- 8. Kris's birthday is just _____ mine, on _____.
- **9.** You can join us for breakfast _____ or for lunch _____.
- **10.** The play's cast will have a party _____ their opening night performance _____.

APPLY Follow the directions below. Make sure your responses are written in complete sentences.

words to organize events in the correct sequence.
Write a paragraph that explains how to cook, build, or create something Use time and order words to make the sequence clear.

Greek Root bio, Latin Root aud

FOCUS

Many English words contain **Latin** and **Greek roots.**Knowing the spellings and meanings of common Greek roots can help you figure out how to spell and define words that contain the roots.

- The Greek root bio means "life"
- The Latin root aud means "hear."

PRACTICE Add the Greek root bio or the Latin root aud to the following base words or word parts to form spelling words. Then write the spelling word on the line.

Word List Challenge Words **1.** antibiotic **11.** biodegradable 21. microbiologist 2. audible **12.** biodiversity 22. audiologist **3.** audience **13.** biographer 23. symbiotic 14. biography 4. audio **5.** audiobook **15.** biologist **6.** audiology **16.** biologu 7. audiotape 17. biomes 8. audiovisual **18.** biopsy **9.** auditorium 19. biosphere **10.** auditory 20. inaudible

- 1. _____mes ______

 2. ____logist ______
- **7.** _____iotape _____
- **3.** _____io ____
- 8. _____degradable _____
- **4.** _____iobook _____
- **9.** _____itorium _____
- **5.** _____sphere _____
- **11.** _____ible ____
- **6.** in_____ible _____
- **12.** _____iology _____

APPLY Circle the word that is spelled correctly.

- **21.** biographer biogripher
- 22. audiaulogist audiologist
- **23.** audouble audible
- **24.** biodiversity biodyvercity
- **25.** biopsie biopsy
- **26.** audiovisual audeovisual
- **27.** biodegradable biodigradible
- 28. bioligest biologist
- **29.** inaudible inaudibel
- **30.** antibiotec antibiotic
- **31.** audutory auditory
- **32.** biosphear biosphere

Irregular Verbs

FOCUS Irregular verbs do not follow the regular rule of adding -ed to form the past tense. Instead, the past tense form of an irregular verb is a different word altogether.

> The verb be is one of the most familiar irregular verbs.

> > Present

Past

lam.

I was.

He is.

He was.

They are.

They were.

 Since they do not follow a regular rule, the past tense forms of irregular verbs must be learned.

She speaks.

She spoke.

They go.

They went.

hear.

l heard.

You **buy**.

You bought.

PRACTICE Circle the verb form in parentheses that correctly completes the sentence.

- **1.** The puppy (runned, ran) across the yard.
- 2. Your sisters (was, were) wondering where you went.
- **3.** The mother bird (fed, feeded) its baby in the nest.
- **4.** Xavier and Lily (leaved, left) for school at six thirty.
- **5.** The sun (rose, rised) while they were still on their way.
- **6.** Kit (fitted, fit) the last piece into the puzzle.

APPLY Read the paragraph. Correct the underlined verbs. Use proofreading marks to make each correction.

Melissa's family was moving, and everyone had <u>came</u> to her going-away party. The music was so loud that no one <u>heared</u> the delivery person when he <u>ringed</u> the doorbell. He knocked several times before Melissa's friend, Macy, finally <u>goed</u> to the door and <u>letted</u> him in. Melissa's little brother singed some songs, and everyone <u>thinked</u> he was really cute. Melissa <u>does</u> not think her brother was so cute. He <u>taked</u> the last piece of pizza before she <u>eated</u> any herself! Her parents <u>gived</u> her some more money, though, and she ordered another pizza. Melissa <u>feeled</u> relieved and thankful.

Write a sentence using the past tense form of each verb.

nake
de
ose
•



Name:

Alphabetical Order Name.	
Order the words from A to Z.	Answers
Audionce Biome Antibiotic Audiotape Audio Biodiversity Audiology Biodegradable Auditorium Auditory Audiovisual Biopsy Inaudible Biographer Biologist Audiobook Biosphere Audible Biology Biography	2.
1)	
2)	3
3)	4
4)	5
5)	6
6)	7
7)	8
8)	
9)	
10)	10
11)	11
12)	12
13)	13
14)	14
15)	
16) 17)	15
18)	16
19)	17
20)	18
	19
	20



Name:



Use the word listed in a sentence.

Antibiotic
Audiobook
Auditorium
Biographer
Biome

Audible Audiology Auditory Biography Biopsy Audience Audiotape Biodegradable Biologist Biosphere Audio Audiovisual Biodiversity Biology Inaudible

1)	Biography	
2)	Biology	
3)	Audiobook	
4)	Audiovisual	
5)	Audio	
6)	Biographer	
7)	Biosphere	
8)	Auditorium	
9)	Audible	
10)	Biodegradable	
11)	Biome	

Spelling

1-10	95	90	85	80	75	70	65	60	55	50	1
11-20	45	40	35	30	25	20	15	10	5	0	1

/ A I		Name:
12)	Auditory	
13)	Biodiversity	
14)	Antibiotic	
15)	Biologist	
16)	Inaudible	
17)	Audience	
18)	Biopsy	
10)	bo)	

19) Audiology

20) Audiotape



Name:



Write each word 4 times (twice lowercase, twice UPPERCASE).

Antibiotic Audiobook Auditorium Biographer Biome

Audible Audiology Auditory Biography Biopsy Audience Audiotape Biodegradable Biologist Biosphere Audio Audiovisual Biodiversity Biology Inaudible

1)	Biodegradable			
-,			THE EXECUTION CONTROL OF STATE OF THE STATE	NEWSTREET, THE PROPERTY OF THE
	GENT RECOMMENDATION OF THE CONTRACT OF THE CON	AND THE PROPERTY AND ADDRESS OF THE PROPERTY A		Martings compared to the plane of the Annahum and the control of t
2)	Auditory			
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8)	Biography			
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9)	Inaudible			

Spelling

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0



Name:

10)	Audiovisual			
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			NEW COLUMN COLUM	
	A			
11)	Audiology		#1177514011177 ACCUMULATION OF THE PROPERTY OF	
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12)	Biology			
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16)	Biosphere			***************************************
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20)	A I'-			
20)	Audio			
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Survival at 40 Below

Vocabulary

Read each item carefully. Choose the correct answer.

- 1. If something is vital, it is
 - A easy to put together.
 - B found in many places.
 - (C) made of natural materials.
 - necessary for life.
- **2.** What does the word sheer mean in this sentence?

A sheer cliff is beside the trail.

- A snowy
- B steep
- © sandy
- ① rocky
- **3.** Which word means to protect from harm or loss?
 - (A) conserve
 - (B) advertise
 - © vibrate
 - D beacon

- **4.** Animals that are hunted by other animals are called
 - A moor.
 - B hurl.
 - © prey.
 - D lint.
- **5.** Which word fits best in this sentence?

A herd of deer was ____ at the edge of the forest.

- A hitching
- B pumping
- © matting
- D grazing

Read the items carefully and choose the correct answer. You may look back at the selection to answer the questions.

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

Part A Why do so many plants and animals go under the snow in the Arctic?

- A The snow gets really deep.
- The ground is cracked.
- (B) It is not so cold there.
- D There are too many bushes.

Part B Which sentence from the selection **best** supports your answer for **Part A**?

- A It is much warmer under the snow layer than in the open air.
- B Snowshoe hares and ptarmigan zigzag between the willow bushes.
- © Inch by inch, the layer of snow deepens with each winter storm.
- Thick pond ice cracks and makes eerie sounds.
- 2. How long is the Arctic winter?
 - (A) three months

© eight months

(B) six months

- D ten months
- 3. What is duff in the selection?
 - A thick fur
 - B layers of fat on some animals
 - (C) leaves on the forest floor
 - (D) a layer of frozen water
- 4. What does a chickadee eat in the winter?
 - A almost nothing at all
- © dense and fluffy feathers
- B bugs that are called flits
- (D) food that has been cached

Survival at 40 Below (continued)

Comprehension

5 . ∨	/here do Dall sheep prefer to li	ive?	
	near rivers	(C)	on frozen prairies
(3) in mountains	(D)	areas without plants
4 5			
	ut the sequence of hibernation		
9	round squirrel in correct order.	USE	the numbers 1-4.
	Supercools body		
	Heart rate drops		
	Brain activity ceases		
	Curls up in burrow		
Rea	d the following items carefull	n. Us	se complete sentences to answer
	questions.	g. - (o complete contenees to anone.
7.	Why does an arctic fox jump h	nigh	into the air if the voles
	are in the snow?		
Q	Why do the caribou avoid the	hurc	and area?
0.	ving do the canoda avoid the	oun	ica area:
٩.	Why do musk oxen gather in a	a cire	cle?
	J J		
10 .	What is a frogsicle in the sele	ction	1?
		· · · · · · · · · · · · · · · · · · ·	

Name	Date _	Score _					
Survival at 40 Below (continued)							
Analyzing the Selection	on						
Read the question below. Support your answer with	•	~	answer.				
How do the animals that do	not hibernate surviv	e the Arctic winter?	>				

Lesson 7 Reteach

Order of Operations

Order of Operations

- 1. Perform operations in parentheses.
- **2.** Multiply and divide in order from left to right.
- 3. Add and subtract in order from left to right.

Find the value of the expression.

$$(2 + 3) - 9 \times 2 - 12 \div 3$$

$$5 + 9 \times 2 - 12 \div 3$$
 Add 2 and 3.

$$5 + 18 - 4$$

5 + 18 - 4 Multiply 9 by 2. Then divide 12 by 3.

19

Add 5 and 18. Then subtract 4 from 23.

Find the value of each expression.

1.
$$(36-10)+(5\times4)$$
 ______ 2. $6\times(81-4)$ _____

5.
$$(9 \times 4) + (8 - 5) =$$
 6. $(100 + 10) \times (6 - 3) =$

6.
$$(100-10) \times (6-3) =$$

7.
$$36 \times (10 - 3) =$$
 ______ 8. $5 \times 2 - 64 =$ _____

9.
$$36 \div (9-5) =$$

9.
$$36 \div (9-5) =$$
 ______ 10. $(25-8) \times (6+16) =$ _____



Operations and Algebraic Thinking 4.0A.3

Lesson 7

Order of **Operations**

Homework

Homework Helper



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Find the value of each expression.

$$8 \times 7 - (9 \div 3) = ?$$

Perform the operations in parentheses first.

Multiply.

Subtract.

So,
$$8 \times 7 - (9 \div 3) = 53$$
.

$$24 - 2 + 6 \times 3 = ?$$

$$24 - 2 + 6 \times 3$$

 $24 - 2 + 18$

Multiply.

40

Subtract.

Add.

So,
$$24 - 2 + 6 \times 3 = 40$$
.

Practice

Find the value of each expression.

2.
$$46 - (6 \times 5) =$$

Find the value of each expression.

3.
$$(3 + 1) + 27 \div 9 =$$

4.
$$5 \times 5 - 8 =$$

5.
$$(4+20) \div 2 + 6 =$$

5.
$$(4+20) \div 2 + 6 =$$
 6. $2 \times 9 + 14 \div 2 =$ **6.**

Problem Solving

Mathematical [7. PRACTICE Model Math Tami buys two books that cost \$14 each. She pays an additional \$2 in tax. How much did Tami pay altogether?



- 8. Claudio had 34 toy cars. He lost two at the park. Then he divided the rest of the cars evenly among himself and 3 cousins. Write an expression to represent the situation. How many cars did each child get?
- 9. Last week, Jean did two sit-ups on Monday and three sit-ups on Wednesday. This week, Jean did three times as many sit-ups as last week. Jean used the expression $2 + 3 \times 3$ to find the number of sit-ups she did this week. Explain and correct her error.
- 10. Test Practice Which expression has a value of 20?

(A)
$$2 \times 5 + 5$$
 (C) $3 \times 7 - 1$

(B)
$$3 \times (5+5)$$
 (D) $40 \div 5-3$

Check My Progress (Lessons 5 through 7)

Write an equation that describes the pattern. Then use the equation to find the next three numbers.

1.	Input (a)	2	4	6	8	10	12
	Output (b)	7	9	11			

Find the value of each expression.

5.
$$7 - 2 \times 3$$

6.
$$14 - 1 \times 10$$

7.
$$8 \times 3 - 5$$

8.
$$(11-3) \div 4$$

9.
$$6 \times (9 \div 1)$$

If Darma babysits 2 hours, she earns \$14. If she babysits 4 hours, she earns \$28.

Problem Solving Reading for Math

SKILL: Choose an Operation

Model the skill using a word problem.



Tina wants to put 2 balloons and 6 marbles in each party bag. She has a bag of 24 balloons and a box of 50 marbles. She wants to make 9 party bags. Does she have enough balloons and marbles?



I have to decide what to do first. I can multiply the number of bags by the number of items. Then I can compare to the number of items she has.



Think: I can multiply to find out how many balloons she needs. $9 \times 2 = 18$. 18 < 24

Think: I can multiply to find out how many marbles she needs. $9 \times 6 = 54$. 54 > 50 She has enough balloons, but not enough marbles.



I can divide to check.

 $24 \div 2 = 12$. $50 \div 6 = 8 R 2$

Distribute Math Center Card 3 to students.

Understand

↓
Plan
↓
Solve

Check

Remind students of the basic steps of problem solving.

Reading for Math Skill



CHOOSE AN OPERATION • MAKE CHOICES

Class Number of Students		Items to Bring	
Mrs. Romero 17 students		cupcakes	
Mr. Mullany 19 students		paper plates, cups, and napkins	
Mrs. Parker	18 students	bottles of juice	

The first-grade classes at Richmond School have decided to have a picnic on the first day of spring. Each class will bring something for the picnic. Use the information in the table to help you solve each problem.

- **1.** Mrs. Romero's class is bringing 60 cupcakes to the picnic. Are there enough cupcakes for each student to have one? Are there any cupcakes left? If so, how many?
- 2. Are there enough cupcakes for each teacher to have one?
- **3.** Mr. Mullany's class is bringing paper plates, cups, and napkins to the picnic. One package contains 24 of each item. How many packages of each item should Mr. Mullany's class buy to be sure there are enough?
- **4.** Mrs. Parker's class is bringing bottles of juice. Each bottle contains about 10 cups of juice. How many bottles of juice should Mrs. Parker's class bring so that everyone can have 1 cup of juice?



Operations and Algebraic Thinking

4.0A.5

Lesson 8

Hands On: Equations with Two Operations

Homework Helper



Need help? connectED.mcgraw-hill.com

Use the equation $(t \times 3) + 5 = w$ to find w when t = 4.

$$(t \times 3) + 5 = w$$

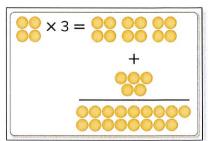
$$(4 \times 3) + 5 = w$$

$$t = 4$$

$$12 + 5 = w$$

$$17 = w$$

When
$$t = 4$$
, $w = 17$.



Practice

Use each equation to find each unknown. Draw models if needed.

1.
$$(z + 3) \times 2 = y$$

2.
$$4 + (g \times 3) = m$$

When
$$z = 2$$
, $y = _____$.

When
$$g = 3$$
, $m = _____$.

Use each equation to find each unknown. Draw models if needed.

3.
$$2 + (n \times 7) = p$$

When $n = 1, p = _____.$

4.
$$(r \times 2) + 6 = v$$

When $r = 4$, $v =$ _____.

5.
$$6 + (a \times 3) = b$$

When $a = 5, b = ____.$

6.
$$(j \div 4) + 8 = k$$

When $j = 16$, $k = ____.$

Problem Solving

7. Set up an equation machine to show $(x + 2) \times 5 = y$. Find the values of y when x = 5, x = 8, and x = 12.

When x = 5, $y = ____.$

When x = 8, $y = ____.$

When x = 12, $y = _____$.

Mathematical -

8. PRACTICE Understand Symbols Bryan made up a game.

Each team starts with seven points. Each time a team answers a question correctly, they earn five points. The equation used to find the total number of points is $7 + (5 \times q) = t$. Find the total number of points (t) when a team answers six questions (q) correctly.

Lesson 9 Reteach

Equations with Multiple Operations

The relationship between two variables in which one input quantity is paired with one output quantity sometimes uses more than one operation.

Keiko earns an allowance of \$5 every week. She also earns \$6 for every hour she babysits her little brother. Keiko wants to find out what she will earn if she babysits for 1, 2, or 3 hours each week.

Step 1 Write an equation.

List what you know: She earns \$5 every week. She earns \$6 per hour babysitting.

List the variables: hours babysitting (h) and money earned each week (m)

Since she earns \$5 every week, this will be added no matter how many hours she babysits.

$$\$5 + (\$6 \times h) = m$$

You know to multiply because she will earn \$6 for each hour she babysits.

Step 2 Make a table.

To set up the table, include the equation, the input (h), and the output (m).

Keiko's Money Earned in 1 week: $\$5 + (\$6 \times h) = m$				
Input (h)	Output (m)			
1	\$11			
2	\$17			
3	\$23			

To find the output, put the input number in the equation for h. The answer will give you the output (m), which is how much money Keiko would earn.

So, Keiko would earn \$11, \$17, or \$23 if she babysat 1, 2, or 3 hours.

Complete each table.

1.
$$(3 \times g) + 4 = k$$
Input (g) Output (k)

1 7

2 10

3

2.	$(12 \div b) + 7 = c$					
	Input (b)	Output (c)				
	1	19				
	2	13				
	3					

Pretest

Write your answer on the line provided.

Identify, describe, and extend each pattern.

Eli's Class Schedule for Two Weeks									
M	T	W	Т	F	M	T	W	Т	F
Gym	Gym	Art	Art	Art	Gym				

3. _____

4. Write an equation that describes the pattern. Then use the equation to find the next two numbers.

Input (a)	6	10	14	18	22
Output (b)	13	17	21		

4.

Find the value of each expression.

5.
$$2 + 8 \div 2 =$$

6.
$$3 \times (18 \div 6) - 1 =$$

7.
$$(10-3) \times 9 =$$

8.
$$(28 \div 4) - (3 \times 2) =$$

9. Erin has 8 sweaters in each of 3 drawers. If she also has 6 sweaters hanging in her closet, how many sweaters does she have in all?

10. Cole is making 5 sandwiches. He puts 8 pieces of bacon on the first sandwich, 6 on the second and 4 on the third. How many pieces of bacon will be on the fifth sandwich?

Use each equation to find each unknown.

11.
$$(8 \pm x) \times 2 = y$$
; if $x = 5$, $y =$

12.
$$14 - (a \times 4) = b$$
; if $a = 3$, $b =$

1 Homework

Operations and Algebraic Thinking 4.0A.3, 4.0A.5

Lesson 9

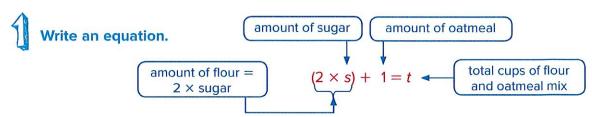
Equations with **Multiple Operations**

Homework Helper



Need help? 🔀 connectED.mcgraw-hill.com

Lauren's recipe calls for 2 times as many cups of flour as sugar. She always adds 1 cup of oatmeal. If she uses 2, 3, or 4 cups of sugar, how many cups of flour and oatmeal mix will she use?



(2 × s)	+1=t	
Input (x)	Output (t)	
2	5	$(2 \times 2) + 1 = 5$
3	7	$(2 \times 3) + 1 = 7$
4	9	$(2 \times 4) + 1 = 9$

If she uses 2 cups of sugar, she will use 5 cups of flour and oatmeal mix. If she uses 3 cups of sugar, she will use 7 cups of flour and oatmeal mix. If she uses 4 cups of sugar, she will use 9 cups of flour and oatmeal mix.

Practice

1. Complete the table.

$(3 \times x)$	$(3\times x)+2=y$				
Input (x)	Output (y)				
1	5				
2	8				
3					
4					

2.

$(12 \div x) + 3 = y$			
Input (x)	Output (y)		
1	15		
2	9		
3			
4			

3.

$(4+x)\times 6=y$			
Input (x)	Output (y)		
1	30		
2	36		
3			
4			

4

$(10-x)\times 7=y$		
Input (x)	Output (y)	
1	63	
2	56	
3		
4		

5.

$(5\times x)+5=y$		
Input (x)	Output (y)	
1	10	
2	15	
3		
4		

6.

	$(6+x)\times 2+3=y$		
Input (x)	Output (y)		
1	17		
2	19		
3			
4			

7.

$2\times(24\div x)-2=y$		
Input (x)	Output (y)	
1	46	
2	22	
3		
4		

Brain Builders

- 8. PRACTICE Make Sense of Problems Mauricio hits a baseball 4 times as often as Tony each game. He also hits 20 baseballs every Monday at practice. Tony hits 4 balls at the game Saturday. Write and solve the an equation to find the number of baseballs Mauricio hit this week.
- **9.** Callie loves flowers. She picks 4 tulips for every daisy she picks. Callie's mom also gave her 6 tulips this week from her garden. How many flowers will Callie have this week if she picks 3 daisies? Explain.
- **10. Test Practice** Refer to the equation $(x \times 3) 2 = y$. If x = 7, what is the value of y?

(A)
$$y = 27$$

(B)
$$y = 23$$

©
$$y = 21$$

①
$$y = 19$$

Name	Date	

Am I Ready?

Apply

Use the table to answer Exercises 1 through 3.

Ella's Tennis Schedule				
Month Number of Tennis Matches		Month	Number of Tennis Matches	
March	8	June		
April	12	July	24	
May		August		

- 1. Ella plays 28 tennis matches in April and May. Write a number sentence to find how many tennis matches Ella plays in May. Identify the missing number. _____
- 2. Ella plays 4 more tennis matches in July than in June. Write a number sentence to find how many more tennis matches Ella plays in July than in June. Identify the missing number.
- 3. Ella has 48 tennis matches in March, April, and August. Write a number sentence to find how many tennis matches Ella plays in August. Identify the missing number.
- **4.** Myla made 30 pies for the bake sale. She made 10 apple pies and 12 cherry pies. Write a number sentence to find how many blueberry pies Myla made and identify the missing number.
- **5.** Carol has 12 red apples and 8 green apples. She gave 5 apples to Ty. How many apples does Carol have now?
- **6.** Robert is making jackets. Each jacket needs 3 buttons. How many buttons will he need if he makes 6, 9, or 12 jackets? Identify the pattern.
- 7. Carla makes \$4 an hour babysitting. How much will she make if she babysits 2, 3, or 4 hours?

Am I Ready?

Practice

Find each unknown.

5. Hunter won 29 prize tickets at the arcade. He won 14 for skee ball and 7 for the ring toss. Use the number sentence 14 + 7 + _____ = 29 to find out how many prize tickets Hunter won for the horse racing game.

Find each value.

7.
$$5 \div 6 - 2 =$$

11.
$$16 - 5 \div 2 =$$

12. Each small pizza has 5 pieces of pepperoni. Complete the table to find out how many pieces of pepperoni are needed for 20 pizzas.

Pizzas	5	10	15	20
Pepperonis	25	50	75	

Am I Ready?

Review

Example

Find the missing number.

THINK 8 plus what equals 11? Count on from 8 to 11.

891011

So,
$$8 + 3 = 11$$
.

Find the missing number.