



4

# Common Core State Standards

**Answer Key**

**Grade 4**

- **English Standards**
- **Math Standards**

**Worksheets and Activities  
that teach every standard!**

## ENGLISH STANDARDS

### Pages 4-468

#### RL.4.1 : Pages 4-14

PAGES 4-5

*No answers required.*

PAGES 6-9 - USE THE TEXT TO MAKE INFERENCES

Use the poster to get hints when making inferences. Read the story and make inferences about characters on page 8. Page 9 is blank to write your own inferences. Answers vary.

Sample answers:

1. Jessie is thrifty. Jessie is not wasteful.
2. Mrs. Johnson is lonely, and Jess wants to be nice to her.
3. Jessie is a good cook. Jessie is good at making pies.
4. Jessie is very busy. Jessie is good at using an opportunity. Jessie is doing good business.
5. Jessie was popular. Jessie was good at what she does.

PAGES 10-12 - INFERENCE CHAINS

Use these organizers to make an inference, and then use a direct quote and one more piece of information from the story to support your inference.

PAGE 13 - IPOD

Answers vary. Sample answers:

1. He feels hopeful about getting the right present. He leaves a lot of hints and helps out with chores. He was excited on the morning of his birthday, because he was certain he'd get it.
2. He was disappointed. It says he felt queasy and confused. Then he began to despair.
3. Trent really wants to make sure his parents know what he wants as his gift. He wanted to guarantee his parent's purchase of the gift, so he kept doing more things.

PAGE 14 - MAJOR GENERAL

Answers vary. Sample answers:

1. It takes place at home and at a school. He practices at home for three months. Then he has to go on stage. He was singing at a school festival or talent show.
2. He feels nervous. He was sweaty. His hands got clammy. His heart started to pound and he wanted to leave.
3. He wanted a challenge. He thought the song was fun. **THE REST OF THIS ANSWER WILL VARY...**

#### RL.4.2 : Pages 15-26

PAGES 15-16

*No answers required.*

PAGES 17-19 - DETERMINING THEME

Read the story. Use the graphic organizer to determine theme. Support with 3 piece of evidence.

Sample Answers...

THEME:

Everyone has their worth, don't judge a book by it's cover, everyone is useful, anyone can be of help...

EVIDENCE:

Eddie usually got picked last.

He wasn't the tallest, biggest, fastest, or slowest kid.

His teammates groaned to see him facing four enemies on his own.

Everyone watched in surprise.

SUMMARY:

Everyone thought Eddie was a bad player. He was picked last, and his teammates expected him to fail. He actually did really well, helped his team out, and won the game!

PAGES 20-23 - IDENTIFYING THEMES

Use these cloud card organizers to write about themes. Answers vary according to story chosen.

PAGE 24 - THEME

Use this organizer page to write about themes in a story.

PAGES 25-26 - THEMES

Write about the major themes in these books.

Sample answers:

Charlotte's Web: loyalty, friendship

Talkin' About Bessie: bravery

To Market, To Market: jobs

The Keeping Quilt: tradition, heritage

Arthur's Eyes: me, myself, confidence

Because of Winn Dixie: facing challenges, persistence

Sample answers:

Charlie and the Chocolate Factory: friendship, honesty

Holes: friendship, perseverance

Mr. Popper's Penguins: animals, caring

Sarah, Plain and Tall: loneliness, abandonment, change

James and the Giant Peach: fantasy, friendship

The Tale of Despereaux: loyalty, hard work, bravery

#### RL.4.3 : Pages 27-32

PAGES 27-28

*No answers required.*

PAGES 29-30 - WELCOME TO THE NEIGHBORHOOD

Use the graphic organizer to respond to the story. Answers will vary depending on character chosen. This organizer can be reused for any passage or text.

PAGES 31-32 - CHARACTER AND SETTING

Use these organizer pages to write about character and setting in any text or story.

**RL.4.4 : Pages 33-54**

PAGES 33-34

*No answers required.***PAGES 35- 41- GREEK MYTHOLOGY**

Match the character cards to traits that match them. Practice these skills on page 41. Order of the answers in the words and phrases column doesn't matter.

**CHARACTER      WORDS & PHRASES**

Hercules	Herculean	Mighty
Achilles	Achilles' Heel	a person's weak spot
Athena	Atheneum	wisdom
King Midas	Midas touch	person who is always lucky
Icarus	wings of wax	don't fly too close to the sun
Medusa	a severely ugly...	turn you to stone...
Orpheus	orphy poems	poet and musician
Odysseus	Odyssey	adventure or journey
Pegasus	winged horse	my Pegasus will not...
Zeus	Mount Olympus	father and ruler...

**PAGES 42-52 - GREEK MYTHOLOGY**

*Then write about each character on the character organizer pages from page 42-52. A blank one has also been included for you.*

**PAGE 53 - VOCABULARY WITH THE FRAYER MODEL**

*Use the organizer to write about vocabulary using a Frayer model after reading Charlie and the Chocolate Factory.*

**PAGE 54 - MYTHOLOGICAL VOCABULARY**

Sample answers for page 54:

**WORD = MODERN DEF. = MYTHOLOGICAL DEF:**

1. Nemesis = an enemy = Goddess of Revenge
2. Olympic = divine or godly = huge or amazing (or dealing with the Olympic games)
3. Achilles' Heel = a weak spot = the warrior's only weak spot
4. Labyrinth = maze = the great maze on Crete where the minotaur lived.
5. Herculean = something tough or hard, a great effort = a feat only Hercules could complete
6. Atlas = book of maps = a Titan who held the world on his shoulders
7. Phoenix = a city in Arizona, something that returns or comes back = a bird of fire that died and was reborn from the ashes

**RL.4.5 : Pages 55-76**

PAGES 55-56

*No answers required.***PAGES 57-69 - THREE AMIGOS**

*Using pages 58-60 as an answer key, cut out the vocab cards on pages 61-63. Sort them into the 3-column chart on page 57. Copy the words into the venn diagrams, either the 3 circle or 2 circle versions on pages 64-69.*

**PAGES 70-73 - IDENTIFYING LITERARY ELEMENTS**

*Read a story, a poem, and a play. Fill out the literary elements cards on pages 71-72. Sort the cards onto the appropriate pile on the sorting page on page 73.*

**PAGE 74 - CONTRASTING PROSE AND POETRY**

*Rewrite the poem in a story form. Then compare and contrast the 2 forms. Answers will vary.*

**PAGES 75-76 - DRAMA, POETRY, & PROSE**

These answers are somewhat subjective. Suggested answers are as follows:

1. All 3 answers
2. Prose
3. Poetry
4. All 3 answers
5. drama, prose
6. prose
7. all 3 (not drama as much, though)
8. all 3 (Especially poetry though)
9. drama
10. drama
11. poetry
12. drama
13. poetry

**RL.4.6 : Pages 77-87**

PAGES 77-78

*No answers required.***PAGES 79-85 - WHOOOOOSE POINT OF VIEW?**

*Sort the story cards into First and Third points of view. Record your answers on page 84. Correct answers are on page 85 and are repeated here:*

**FIRST PERSON:** B, C, D, G, I, K

**THIRD PERSON:** A, E, F, H, J, L

**PAGE 86 - POINTS OF VIEW**

*Read the story Hey, Little Ant, and then respond to the questions.*

**PAGE 87 - FIRST OR THIRD PERSON**

1. First
2. Third
3. Third
4. First
5. First
6. Third
7. Third (This one *could* be first, but more text is needed to tell)
8. Third
9. First
10. Third

**RL.4.7 : Pages 88-93**

PAGES 88-89

*No answers required.*

PAGE 90 - BOOK VS. MOVIE

*Compare and contrast a book and a movie on this organizer. Answers vary by topic chosen.*

PAGE 91 - ILLUSTRATION CONNECTION

*Read the Secret Garden and respond to the illustrations and the connections they have to the words in the passages.*

PAGE 92 - THE BFG

*Read the two suggested Roald Dahl stories and compare and contrast them with the Venn Diagram.*

PAGE 93 - THE BFG

*Act out scenes from the stories, and use this writing template to respond.***RL.4.9 : Pages 94-100**

PAGES 94-95

*No answers required.*

PAGES 96-98 - COMPARE AND CONTRAST ACROSS CULTURES

*Compare and contrast the two fables using the Venn Diagram. Answers Vary.*

PAGE 99 - GOOD VS. EVIL

*Read the 2 stories and compare and contrast with the graphic organizer.*

PAGE 100 - GROWING UP

*Read the 2 stories and compare and contrast with the graphic organizer.***RL.4.10 : Pages 101-110**

PAGES 101-102

*No answers required.*

PAGES 103-108 - THINKING MAPS FOR READING JOURNEYS

*Use these different graphic organizers to respond to text.*

PAGES 109-110 - READING LOGS

*Use these pages to keep track of student reading and genres.***RI.4.1 : Pages 111-118**

PAGES 111-112

*No answers required.*

PAGES 113-116 - HURRICANES

*Use the hint cards while reading the story. Then answer the questions on page 116.***PAGE 116:**

1. A
2. B
3. D
4. B
5. D
6. B
7. C
8. A

PAGE 117 - DR. WILLIAM BEAUMONT

*Sample answers...**Dr. Beaumont is known for his research on the digestive system. He learned about the temperatures of the stomach, what affects digestion, how fast food is digested, and how the stomach works.*

PAGE 118 - ENVIRONMENT

*Sample answers...*

1. Pesticides and poisons used by farmers can affect bugs, which then affect mice, and then effect birds. Pollution spreads through water, too.
2. We can recycle, stop littering, use fewer plastic products, and use less chemicals.
3. Living organisms require certain things to remain living. We need water, soil, and air. If we pollute these things, we cannot live.

**RI.4.2 : Pages 119-126**

PAGES 119-120

*No answers required.*

PAGES 121-124 - WHAT'S THE MAIN IDEA?

*Read the story about poison dart frogs. Use the organizer to write down the main idea, supporting details, and a summary. There is a second version of the story with a new graphic organizer and a longer summary paper, as well.**Sample answers...**MAIN IDEA: Poison Dart frogs are very interesting. Poison Dart Frogs are very different from regular frogs we know.**SUPPORTING DETAILS: They have enough poison to kill 10 men. They are very colorful. They carry children on their back like monkeys. Scientists don't know why they are so poisonous. Scientists are trying to make medicine from their poisons.**SUMMARY: answers vary*

PAGES 125-126 - LEMURS

*Read the story about lemur. Use the organizer to write down the main idea, supporting details, and a summary.**Sample answers...**MAIN IDEA: Lemurs are very interesting animals.**SUPPORTING DETAILS: They spend most of their time in trees. They do not have a prehensile tail. They can't hang from their tails. They have good eyes and a good sense of smell. They have opposable thumbs. They are endangered, but people are trying to protect them.**SUMMARY: answers vary*

**RI.4.3 : Pages 127-132**

PAGES 127-128

*No answers required.*

PAGES 129-130 - WHY, OH WHY?

*Read the story. Use the graphic organizer to show cause and effect events from the story. This organizer can be reused with other texts, too.*

PAGE 131 - NOTES ON A BOOKMARK

*Use this bookmark to do summaries on a historical text.*

PAGE 132 - SCIENTIFIC TIMELINE

*Write about a scientific discovery. Use dates and times to show the history.***RI.4.4 : Pages 133-170**

PAGES 133-134

*No answers required.*

PAGES 135-168 - JEOPARDY

*Play the Jeopardy game. Match the answers to the questions in the different categories. Copy answers for at least 5 questions on page 160. Answers are on pages 161-168.*

PAGES 169-170 - WORD MEANINGS AND ASSOCIATIONS

*Use these two graphic organizers to develop meanings of important vocabulary terms.***RI.4.5 : Pages 171-180**

PAGES 171-172

*No answers required.*

PAGES 173-180 - DIGGING FOR INFORMATION

*Use this variety of graphic organizers to organize information found in text.***RI.4.6 : Pages 181-187**

PAGES 181-182

*No answers required.*

PAGES 183-187 - FIRSTHAND AND SECONDHAND ACCOUNTS

*Read these or two other passages and use the graphic organizers to compare and contrast firsthand and secondhand accounts of the same events.***RI.4.7 : Pages 188-194**

PAGES 188-189

*No answers required.*

PAGES 190-193 - CONTRIBUTIONS TO THE TEXT

*Use the graphic organizers provided to describe how pictures, motion, speech, or other audio/visual elements add to the presentation. The suggested material is Roosevelt's Address after Pearl Harbor.*

PAGE 194 - BIOGRAPHICAL TIMELINE

*Use this organizer to show the important events in a famous person's life.***RI.4.8 : Pages 195-201**

PAGES 195-196

*No answers required.*

PAGES 197-199 - ANIMAL MYTH BUSTERS

*Read the stories and write some main points with evidence on the organizer.*Sample answers...*Toads don't give you warts - they come from a virus. They do have some poisons though.**Ostriches don't put their heads in the sand - they do turn eggs, and they do dig in the ground though.*

PAGES 200-201 - SUPPORTING POINTS

*Use these organizers to show inferences and supporting details to a main point.***RI.4.9 : Pages 202-208**

PAGES 202-203

*No answers required.*

PAGES 204-206 - TWO TEXTS

*Compare two texts with these graphic organizers.*

PAGES 207-208 - THE FUTURE ME

*Use these writing papers to write about what you will be like in the future. Support the argument/idea with details.***RI.4.10 : Pages 209-2**

PAGES 209-210

*No answers required.*

PAGES 211-216 - NON-FICTION FISHIN'

*Use this variety of graphic organizers to summarize what you have read.*

PAGES 217-218 - READING LOGS

*Use these pages to keep track of student reading and genres.*



## RF.4.3 : Pages 219-232

PAGES 219-220

No answers required.

PAGES 221-228 - READ IT!

Practice breaking the words on the vocabulary cards into syllables. Record sheets on pages 227-228 help track student progress and set goals for vocabulary learning.

PAGES 229-230 - MULTI-SYLLABIC WORDS

Rewrite the words with dashes between syllables. Color code them according to syllable count. Answers are also on page 230. Please note that there is some regionalization on pronunciation and syllable breaks. Adjust to fit.

cooperate = co-op-er-ate (red)

obstacle = ob-sta-cle (yellow)

geography = ge-og-ra-phy (red) some might do ge-o-gra-phy

permission = per-mis-sion (yellow)

exercise = ex-er-cise (yellow)

individual = in-di-vid-u-al (blue) some might do in-di-vid-ual (when pronounced as in-di-vij-el)

character = char-ac-ter (yellow)

synthesis = syn-the-sis (yellow)

dynamite = dy-na-mite (yellow)

harmonica = har-mo-ni-ca (red) some might do har-mo-ni-ca

particular = par-tic-u-lar (red)

democracy = de-moc-ra-cy (red) some might do de-mo-cra-cy

PAGES 231-232 - MULTI-SYLLABIC WORDS

Rewrite the words with dashes between syllables. Color code them according to syllable count. Answers are also on page 232. Please note that there is some regionalization on pronunciation and syllable breaks. Adjust to fit.

investigate = in-ves-ti-gate (red)

hypothesize = hy-poth-e-size (red) some might do hy-po-the-size

chemical = chem-i-cal (yellow) some might do che-mi-cal

camouflage = cam-ou-flage (yellow) some might do ca-mou-flage

conclusion = con-clu-sion (yellow)

oceanic = o-ce-an-ic (red)

scientist = sci-en-tist (yellow)

nonrenewable = non-re-new-a-ble (blue)

constellation = con-stel-la-tion (red)

supernatural = su-per-nat-ur-al (blue)

classification = clas-si-fi-ca-tion (blue)

## RF.4.4 : Pages 233-238

PAGES 233-234

No answers required.

PAGES 235-236 - THE WAITING ROOM

Practice reading this passage. Record the words read in the allotted time.

PAGES 237-238 - ORAL READING PASSAGES

Read these short passages. Figure out the number of words correctly read in 1 minute.

## W.4.1 : Pages 239-244

PAGES 239-240

No answers required.

PAGES 241-242 - THE BEST SEASON IS...

Use the writing organizer and blank writing page to write a persuasive/opinion paper.

PAGES 243-244 - SUPPORTING AN OPINION

Use the organizers to write a persuasive/opinion paper.

## W.4.2 : Pages 245-252

PAGES 245-246

No answers required.

PAGES 247-249 - EXPLAIN IT ALL

Use the prompts on page 247. Write an informative paper using the organizer and writing pages that follow.

PAGES 250-252 - INFORMATIONAL WRITING

Use the writing pages and organizers to write an informative essay.

## W.4.3 : Pages 253-260

PAGES 253-254

No answers required.

PAGES 255-257 - WRITE ABOUT A TIME WHEN

Use the prompts on page 255. Write an informative paper using the organizer and writing pages that follow.

PAGES 258-260 - NARRATIVE WRITING

Use the writing pages and organizers to write a narrative essay.

## W.4.4 : Pages 261-270

PAGES 261-262

No answers required.

PAGES 263-268 - WRITING TWEETS

Use the writing sample about bird feeders. Then read the hint cards. Now write your own procedural paper.

PAGE 269-270 - WRITING IN FOURTH GRADE

Use the planner and the skills list on the following page to create quality pieces of writing for different purposes.

## W.4.5 : Pages 271-281

PAGES 271-272

No answers required.

PAGES 273-279 - HEAR YE, HEAR YE, WRITE ALL ABOUT IT!

Practice the steps of writing, including drafts, revisions, and planning. Use the provided hints and graphic organizers to produce quality writing.

PAGE 280 - EDITORS

Learn to use the editing marks when peer editing.

PAGE 281 - REVISING

Review the hints provided to make a better writing piece.

## W.4.6 : Pages 281-289

PAGES 281-282  
No answers required.

PAGES 283-288 - LET'S PUBLISH MY WRITING  
Use the writing prompts provided, or write some of your own.  
Write 1-page papers about the topic.

PAGES 288-289 - USING TECHNOLOGY  
Use these pages to help check on students' skills using technology when writing.

## W.4.7 : Pages 290-319

PAGES 290-291  
No answers required.

PAGES 292-309 - COLOR ME CURIOUS  
Choose a topic card from one of the categories. Then choose several of the details cards that go with that type of categories (they are pattern and color-coded to match). Then write a topical research paper about the chosen topic.

PAGES 310-317 - GRAPHIC ORGANIZERS & WRITING PAPERS  
Use these graphic organizers to plan your writing. Then use the provided writing papers to write about your research project.

PAGES 318-319 - RESEARCH PROJECTS  
Use these pages to plan a research project.

## W.4.8 : Pages 320-326

PAGES 320-321  
No answers required.

PAGES 322-326 - TAKE A NOTE  
Use these organizers to take notes on something read, listened to, or watched.

## W.4.9 : Pages 327-337

PAGES 327-328  
No answers required.

PAGES 329-337 - HELP FROM OTHER AUTHORS  
Use the graphic organizer to write about story elements. Then write a reflection or summary based on your observations. There are several graphic organizers and writing papers provided to help.

## W.4.10 : Pages 338-348

PAGES 338-339  
No answers required.

PAGES 340-346 - GET READY TO WRITE  
Use the provided prompts and writing papers to write an essay.

PAGES 347-348 - WRITING LOGS  
Use these pages to keep track of student writing for different purposes.

## SL.4.1 : Pages 349-352

PAGES 349-350  
No answers required.

PAGES 351-352 - DISCUSSION PREPARATION  
Use the organizers to prepare discussion points and take notes on a discussion.

## SL.4.2 : Pages 353-357

PAGES 353-354  
No answers required.

PAGES 355-357 - IN YOUR OWN WORDS  
Summarize and paraphrase using the graphic organizers provided.

## SL.4.3 : Pages 358-361

PAGES 358-359  
No answers required.

PAGES 360-361 - REASONS AND EVIDENCE  
Use the organizers to support reasons with evidence, using text or speech as proof.

## SL.4.4 : Pages 362-365

PAGES 362-363  
No answers required.

PAGES 364-365 - NOW PRESENTING!  
Use the organizers provided to create a main point and support with facts, evidence, and supporting details. Give a presentation.

## SL.4.5 : Pages 366-370

PAGES 366-367  
No answers required.

PAGES 368-370 - ENHANCING MY PRESENTATION  
Add audio-visuals to a presentation. Organizers and hint sheets offer suggestions.

## SL.4.6 : Pages 371-378

PAGES 371-372  
No answers required.

PAGES 373-377 - FORMAL OR INFORMAL  
Sort the formal and informal language samples into categories. Answers are on page 377, and are repeated here.  
FORMAL: A, B, D, I, K, L  
INFORMAL: C, E, F, G, H, J

PAGE 378 - FORMAL VS. INFORMAL  
From left to right...

COLUMN 1:	COLUMN 2:	COLUMN 3:
informal	informal	formal
formal	formal	informal
informal	formal	formal
informal	formal	formal
formal	formal	informal

**L.4.1 : Pages 379-390**

PAGES 379-380

*No answers required.*

**PAGES 381-387 - GET THE SCOOP ON CONFUSING WORDS**  
Practice using homophones correctly. Match the ice cream scoops to the cones. Then practice those skills on page 386. Answers are on page 387, and are repeated here.

**COLUMN 1:      COLUMN 2:**

It's	to
Its	two
past	too
then	there
they're	than
passed	their

**PAGE 388 - PREPOSITIONAL PHRASES**

1. under discussion
2. by accident
3. within one's rights
4. beyond the trees
5. into the house
6. for a change
7. on the horizon
8. out of respect

**PAGE 389 - PICKING THE RIGHT WORD**

1. where, to
2. wear, too
3. they're/we're, their
4. your, you're
5. there, two, they're/we're

*Answers vary for numbers 6-9.***PAGE 390 - AUXILIARY VERBS**

Choose the best answer that agrees with the rest of the sentence context.

1. may
2. should
3. could
4. had better
5. might
6. will
7. would

**L.4.2 : Pages 391-410**

PAGES 391-392

*No answers required.***PAGES 393-396 - SAY WHAT? QUOTATION STATION***Create the quotes on the farm cards with the small word and punctuation tiles. Copy the sentences correctly onto page 396.***PAGES 397-398 - DIALOGUE AND QUOTES***Create your own dialogue or copy quotes from text.***PAGES 399-405 - PROOF READING**

Read the sentence cards. Fix the errors. Write the correct sentences on page 404. Answers are on page 405, and are repeated here. Most sentences require: (1) capital letters at the beginning, (2) commas to split compound sentences, (3) quotations around dialogue, and (4) end punctuation.

1. Mary's parents were out of town, so she came to my house after school.
2. Mary explained, "My little brother is already at your house."
3. We walked into the kitchen, and my mother looked puzzled.
4. "I can't find my phone," mom explained.
5. Mom had searched the entire house, but she hadn't been outside.
6. I suggest, "Let's follow these tracks."
7. We followed the muddy footprints, and they led us outside.
8. "The tracks end at the picnic table!" exclaimed Mary.
9. We looked under the table, but we were not surprised with what we saw.
10. Mary's little brother was under the table, and he had the phone.

**PAGES 406-407 - FIXING PUNCTUATION***Fix the punctuation on page 406. Answers are on page 407. For the sake of space, they are omitted here.***PAGES 408-409 - FIXING PUNCTUATION***Fix the punctuation on page 408. Answers are on page 409. For the sake of space, they are omitted here.***PAGE 410 - FIXING PUNCTUATION**

Correct answers.

1. The Boston Tea Party occurred on December 16, 1773.
2. Paul Revere made his famous ride to Lexington on Tuesday, April 18, 1775.
3. George Washington took command of the Continental Army on July 3, 1775.
4. Benjamin Franklin was known to say, "By failing to prepare, you are preparing to fail."
5. The Continental Congress adopted the Declaration of Independence on July 5, 1776.
6. John Hancock's signature is the most famous one on the Declaration of Independence.
7. "Did you know that the British soldiers were called red coats due to the color of their uniforms?"
8. George Washington is known to have said, "It is better to be alone than in bad company."
9. The largest city in American in 1775 was Philadelphia.
10. People that continued to support the King of England were called Loyalists.



**L.4.3 : Pages 411-422**

PAGES 411-412

*No answers required.***PAGES 413-418 - PICK THE PUNCTUATION**

Match the punctuation cards to the sentences. Practice those skills on page 417. Answers are on page 418 and are repeated here.

PERIOD: C, F, H, L

EXCLAMATION: A, E, G, J

QUESTION: B, D, I, K

**PAGE 419 - PUNCTUATING SENTENCES**

Punctuate sentences correctly. Quotation marks are optional on some.

- Without hesitating, Dudley jumped from the top bleacher and chased down the robber.
- Well, I finally finished the curtain - looks awful -- but it's finished.
- I will have three things for lunch: ham, cheese, and an apple.
- Paul and Tom had a fight; they aren't talking to each other.
- Mom said, "Please help me bake a cake."
- I don't have a bicycle, so I am borrowing my cousin's.

**PAGE 419 - PUNCTUATING SENTENCES**

Punctuate sentences correctly. Quotation marks are optional on some.

- How many pies do you have to make for the carnival?
- We all hid behind the furniture and yelled, "Surprise!"
- My brother told me he'd be here when school got out, but...
- Even though the dog was friendly-looking, mom told me not to pet him.
- On the sign were the words 'Piso Mojado (wet floor).'
- Next Friday is the last day I can buy tickets to the concert.

**PAGE 421 - WRITING WITH EFFECT**

Use creative and colorful language to describe each picture. Make sure to use proper punctuation. Answers vary.

**PAGE 422 - FORMAL LANGUAGE**

- postpone
- grateful
- inconvenient
- established
- Dear Mr. Hoosier

CIRCLE: (these are somewhat subjective)

contact, ascertain

make a decision, assist, demonstrate

obtain, resolve

commenced, inform, get in touch

**L.4.4 : Pages 423-441**

PAGES 423-424

*No answers required.***PAGES 425-438 - DOUBLE DIP**

Practice using words with double-meanings in the sentences. Match the ice cream to the cones. Write down sentences using these words. Sample answers are on page 438. They are not repeated here for the sake of space.

**PAGE 439 - USING CONTEXT CLUES**

Use this graphic organizer to find the meanings of new words.

**PAGES 440-441 - WORD MEANINGS**

Break apart words to determine their meaning. Keep track of new words on these two log sheets.

**L.4.5 : Pages 442-456**

PAGES 442-443

*No answers required.***PAGES 444-453 - IT'S RAINING CATS AND DOGS**

Match the idioms to their meanings. Page 452 has cards that can be cut apart to match, too. Page 453 has an answer key. They are also repeated here:

IDIOM:	MEANING:
went out on a limb	to take a chance
in hot water	you are in trouble
not my cup of tea	you dislike something
swept his teacher off...	to greatly impress someone
green with envy	to be very jealous
let the cat out of the bag	to tell a secret
raining cats and dogs!	it is raining really hard
got up on the wrong side...	you are in a bad mood

**PAGE 454 - ADAGES**

Sample answers...

similar things like to hang out together  
it's hard to learn new things, especially when you get older  
keep moving and have no responsibilities to tie you down  
you can't tell what something is by its outward appearances  
revenge doesn't fix things  
you don't know what you will really get until it arrives

**PAGE 455 - MATCHING THE ADAGES**

LEFT COLUMN (ADAGE):	RIGHT COLUMN (DEFINITION):
actions speak louder...	= what a person actually does is...
all that glitters is not...	= appearances can be deceptive
better late than never	= it's better to do something, even...
don't put all your eggs...	= don't invest all your efforts...
it's easier said than done	= some things sound easy, but...
It's no use crying over...	= don't express regret over...
like father, like son	= a son's character is expected...
where there's smoke...	= rumors are usually based on...

**PAGE 456 - SYNONYMS & ANTONYMS**

SYNONYM:	ROOT WORD:	ANTONYM:
come	arrive	depart
lively	energetic	lethargic
produce	create	destroy
useful	beneficial	harmful
pollute	contaminate	purify
likely	probable	unlikely
doubtful	dubious	certain
bright	intelligent	ignorant

**L.4.6 : Pages 457-468**

PAGES 457-458

*No answers required.***PAGES 459-465 - NAME THAT GROUP**

Sort the words into the 4 categories: actions, emotions, states of being, and wildlife. Refer to the original, uncut pages for answers. Copy the vocabulary words onto page 465 by category.

**Actions = page 460**

accelerate, accomplish, balance, build, calculate, convert, develop, examine, finalize, gather, highlight, interact, justify, motivate, organize, revitalize

**Emotions = page 461**

annoy, compassion, disappointed, enjoyable, excited, faint, fair, humorous, keen, pleasurable, satisfied, shy, tease, thrilled, unfair, frustrated

**States of Being = page 462**

am, is, are, was, were, be, been, being

**Wildlife = page 463**

conservation, endangered, animals, rainforest, environment, habitat, foliage, canopy, vegetation, predator, prey, population, species, herbivore, carnivore, omnivore

**PAGE 466 - WORD STUDY**

*Use the graphic organizer to sort related words.*

**PAGE 467 - SPATIAL WORDS**

1. inside
2. around
3. beneath
4. ahead
5. alongside
6. aboard
7. outside
8. across

**PAGE 468 - TEMPORAL WORDS**

1. yesterday
2. however
3. tomorrow
4. immediately
5. last night
6. before
7. concurrently
8. yearly

**MATH STANDARDS**  
**Pages 469-851**

**4.OA.1 : Pages 470-480**

PAGES 470-471

*No answers required.***PAGES 472-478 - FUN AT THE BEACH**

Practice matching pictures and answers to word problems. Use the same skills on page 478.

**PAGE 478:**

1.  $3 \times 4 = 12$  beach balls
2.  $6 \times 4 = 24$  shells
3.  $7 \times 3 = 21$  coconuts
4.  $5 \times 4 = 20$  beach balls
5. 15 lines,  $3 \times 5 = 15$  or  $5 \times 3 = 15$

**PAGE 479 - HOW MANY MORE TIMES?**

Some answers will make sense if factors are arranged in different orders, but the answers given follow the example's pattern. From top to bottom...

1. 5
2. 2, 2, 7
3. 2, 2, 9
4. 8, 32, 8, 4
5. 9, 27, 9, 3
6. 5, 45, 5, 9
7. 3, 36, 3, 12
8. 9, 9, 81, 9, 9 (other combinations using 27 work, too)
9. 9, 10, 90, 9, 10 (other combinations using 15, 30, or 45 work)
10. 12, 9, 108, 12, 9

**PAGE 480 - HOW MANY MORE TIMES?**

Answers for these follow this format:

- (1) Draw the first factor in a set. In  $5 \times 3 = 15$ , draw a set of 5.
- (2) Then draw that same set again as many times as the second factor indicates. In  $5 \times 3 = 15$ , draw a set of 5 three times.
- (3) The total drawn for step 2 should be the product. In this example, 15.

## 4.OA.2 : Pages 481-489

PAGES 481-482

No answers required.

### PAGES 483-487 - MULTIPLICATIVE COMPARISON

Practice matching the problem cards to the equations cards.

Practice this skill on page 487. Write the questions and equations in any order.

Sample Answers...

COMPARISON:	EQUATION:	ANSWER:
5 times as many as 4	$5 \times 4 =$	20
3 times as many as 6	$3 \times 6 =$	18
2 times as many as 2	$2 \times 2 =$	4
4 times as many as 10	$4 \times 10 =$	40
8 times as many as 7	$8 \times 7 =$	56
4 times as many as 1	$4 \times 1 =$	4
5 times something is 45	$45 \div 5 =$	9
3 times something is 21	$21 \div 3 =$	7
9 times something is 72	$72 \div 9 =$	8
6 times something is 36	$36 \div 6 =$	6
11 times something is 66	$66 \div 11 =$	6
3 times something is 30	$30 \div 3 =$	10

### PAGE 488 - HOW MANY TIMES?

- 42 years,  $6 \times 7 = 42$
- 20 flowers,  $5 \times 4 = 20$
- 7 crayons,  $63 \div 9 = 7$
- \$650,  $65 \times 10 = 650$
- 4 times faster,  $100 \div 25 = 4$

### PAGE 489 - HOW MANY TIMES?

- 16 buses,  $4 \times 4 = 16$
- 40 cookies,  $5 \times 8 = 40$
- 72 lightbulbs,  $18 \times 4 = 72$
- 9 pencils,  $63 \div 7 = 9$
- 56 cents,  $7 \times 8 = 56$

## 4.OA.3 : Pages 490-504

PAGES 481-482

No answers required.

### PAGES 483-502 - ARITHMETIC THEME PARK

Match the problem cards to the ride answer cards. Copy the answers onto page 501. The answer key is on page 502, and is repeated here.

#### PAGE 501:

- |                              |                               |
|------------------------------|-------------------------------|
| 1. \$9                       | 7. \$10                       |
| 2. 60 pizzas                 | 8. 8 tables (last isn't full) |
| 3. 28 people                 | 9. 10 cookies                 |
| 4. 6 buses (last isn't full) | 10. 162 tickets               |
| 5. 12 tickets                | 11. \$12                      |
| 6. \$76                      | 12. 15 balls                  |

### PAGE 503 - SOLVING PROBLEMS BY ESTIMATING

- $800 + 500 = 1300$  grams or  $750 + 550 = 1300$
- $50 \times 60 = 3000$  beads (mental math)  $45 \times 60$  works at 2700, but it is not mental math
- $500 - 300 = \$200$  or  $475 - 275 = 200$
- $840 \div 12 = 70$  pounds
- $720 \div 12 = 60$  jellybeans

### PAGE 504 - SOLVING PROBLEMS BY ESTIMATING

ESTIMATE:	ACTUAL:
$40 + 30 + 15 = 85$	$43 + 26 + 13 = 82$
$100 - 40 = 60$	$96 - (37 + 4) = 55$
$20 + 30 + 20 = 70$	$(3 \times 6) + (4 \times 7) + (3 \times 8) = 70$
$300 + 100 + 50 = 450$ or $325 + 125 + 50 = 500$	$328 + 129 + 53 = 510$
$5 + 20 + 10 = 35$	$4 + (4 \times 5) + (4 \times 2) = 32$

## 4.OA.4 : Pages 505-516

PAGES 505-506

No answers required.

### PAGES 507-513 - PLANET PRIME VS. PLANET COMPOSITE

Sort the prime and composite numbers. Then write them on page 513. The correct answers are on page 514 and are repeated here.

PRIME: 47, 19, 11, 13, 7, 41, 83, 3, 37, 29

COMPOSITE: 30, 63, 55, 38, 93, 28, 33, 9, 42, 75

### PAGE 515 - FACTORS AND MULTIPLES

COLUMN 1:	COLUMN 2:	COLUMN 3:
36, 18, 60	45, 81, 18, 27	prime = 1, 7
prime = 1, 13	comp. = 1, 2, 4, 8	21, 49, 63
comp. = 1, 3, 5, 15	40, 24, 32	comp. 1, 2, 3, 4, 6, 12
10, 25, 35	comp. = 1, 2, 3, 4, 6, 8, 12, 24	48, 60

### PAGE 516 - FACTORS AND MULTIPLES

COLUMN 1:	COLUMN 2:	COLUMN 3:
38, 95, 190	96, 32, 192	prime = 1, 5
comp. = 1, 2, 7, 14	comp. = 1, 5, 25	44, 66
comp. = 1, 3, 9	40, 80	comp. = 1, 2, 3, 4, 6, 9, 12, 18, 36
100, 25, 225	comp. = 1, 2, 5, 10	70, 60, 80

## 4.OA.5 : Pages 517-532

PAGES 517-518

No answers required.

### PAGES 519-529 - PATTERN DETECTIVE

Figure out the rules for each pattern. Then determine the next 2 in each sequence. Write your answers on page 529.

1ST NUMBER:	2ND NUMBER:	RULE:
A. 21	24	+3
B. 128	256	$\times 2$
C. 25	19	-6
D. 750	900	+150
E. 125	150	+25
F. 5, 120	20, 480	$\times 4$
G. 30	60	$\times 2, +2$
H. 100,000	1,000,000	$\times 10$
I. 36	42	+6
J. 19	24	-2, +5

### PAGE 530 - PATTERN DETECTIVE

- 3, (6), 9, 12
- 55, 49, (43), 37
- (25), 50, 75, 100
- 2, 4, 6, (12)
- 10, 100, 1000, (10,000)
- 15, (13), 18, 16

### PAGE 531 - USING NUMBER PATTERNS

#### Cross pattern answers...

Numbers of squares = 1, 5, 9, 13, 17, 21, 25... (RULE = +4)

#### Block pattern answers...

Number of squares = 4, 8, 16, 32, 64, 128, 256 (RULE =  $\times 2$ )

#### Other pattern answers...

- 46, 52, 55, 61, 67, 70, 75, 81... (RULE = +6, +3, +5)
- 17, 23, 18, 24, 19, 25, 20, 26... (RULE = -5, +6)
- 224, 112, 448, 224, 896, 448, 1792, 896... (RULE =  $\times 4, \div 2$ )

### PAGE 532 - USING NUMBER PATTERNS

#### Cupcakes:

Rule =  $\times 28$  Cupcakes = 168, 140, 112, 84, 56, 28, 0

#### Rose Buds:

Rule = +3 or 2 + (3 x Days) Buds = 8, 11, 14, 17

#### Laps Ran:

Rule = +16 or (previous + 16) Laps = 32, 48, 64, 80, TOTAL = 240

#### Pennies:

Rule = +4 or 5 + (4 x Days) Pennies = 9, 13, 17, 21, 25, 29

**4.NBT.1 : Pages 533-541**

PAGES 533-534

*No answers required.*

PAGES 535-539 - DOWN IN THE SEA DIVISION

Match the equation cards to the answer cards. Practice these skills on page 538. Answers are on page 539 and are repeated here...

**COLUMN 1:** **COLUMN 2:**

A. 10	B. 10
C. 100	D. 100
E. 10	F. 1,000
G. 100	H. 1,000
I. 100	J. 1,000
K. 1,000	L. 10

PAGE 540 - HOW MANY TIMES?

1. 100 times	2. 10 times
3. 6	4. 90
5. 10 times	6. 100 times
7. 500	8. 90
9. 4	10. 90,000

PAGE 541 - NAMING VALUE

<u>934,439</u> =						
900,000	30,000	4,000	400	30		9
<u>555,555</u> =						
500,000	50,000	5,000	500	50		5
<u>66,736</u> =						
60,000	6,000	700	30	6		
<u>454,545</u> =						
400,000	50,000	4,000	500	40		5
<u>772,376</u> =						
700,000	70,000	2,000	300	70		6
<u>2,222,222</u> =						
2,000,000	200,000	20,000	2,000	200		2

**4.NBT.2 : Pages 542-560**

PAGES 542-543

*No answers required.*

PAGES 544-558 - PLACE VALUE PB&amp;J

*Match the sandwich to the jelly and peanut butter cards.*

PAGE 559 - KNOWING YOUR PLACE IN PLACE VALUE

<b>COLUMN 1:</b>	<b>COLUMN 2:</b>
20 vs. 2, one is 10x bigger	500
800 vs. 8, 100x bigger	the 9, it's in the 1s place
the 1, it's in the 10,000 place	40,000
2 boxes 200, 4 tens lines 40, 5 ones	4 boxes 400, 2 lines, 5 ones
6	56,479

PAGE 560 - KNOWING YOUR PLACE VALUE

1. 10  
2. 4  
3. 900, 70 (any order)  
4. thousands, ones, tens, hundreds  
5. 300  
6. 200  
7. >  
8. >  
9. 4,603  
10. 24,453

**4.NBT.3 : Pages 561-572**

PAGES 561-562

*No answers required.*

PAGES 563-570 - ROUNDING ROAD TRIP

Match the suitcase and airplane cards, rounding to the underlined digits. Put your answers on page 569. Answers are on page 570, and are repeated here.

A. 50	B. 31,000	C. 300
D. 4,800	E. 7,380	F. 66,500
G. 7,000	H. 90	I. 66,400
J. 8,000	K. 80	L. 5,000

PAGE 571 - ROUNDING TO THE NEAREST 100

**LOCATION:** **NEAREST 100:**

right after 250	300
right after 300	300
right after 675	700
right after 400	400
right before 950	900

PAGE 572 - ROUNDING TO THE NEAREST WHOLE NUMBER

<b>COL 1:</b>	<b>COL 2:</b>	<b>COL 3:</b>	<b>COL 4:</b>
46,000	78,000	190,000	97,200
30,000	6,200	126,000	350,000
57,000	330,000	4,700	12,400
6,000	12,300	58,000	60,000
34,000	680,000	1,340,000	2,456,900

**4.NBT.4 : Pages 573-582**

PAGES 573-574

*No answers required.*

PAGES 575-580 - MOVIE MATH

Match the answer and question cards correctly. Copy your answers onto page 579. Check your answers with page 580. Answers are also repeated here.

A. 888	B. 2,010	C. 15,251
D. 6,287	E. 10,600	F. 3,413
G. 8,373	H. 4,126	I. 6,968
J. 1,908	K. 5,685	L. 8,107

PAGE 581 - ADDING WITH FLUENCY

Answers from left to right...

<b>COL 1:</b>	<b>COL 2:</b>	<b>COL 3:</b>	<b>COL 4:</b>
81	83	65	111
83	114	112	127
138	120	109	128
1191	1041	647	1286
7117	3818	10,813	8993

PAGE 582 - SUBTRACTING WITH FLUENCY

Answers from left to right...

<b>COL 1:</b>	<b>COL 2:</b>	<b>COL 3:</b>	<b>COL 4:</b>
37	36	40	57
41	63	56	41
51	82	13	47
305	271	118	399
617	1078	68	1107

**4.NBT.5 : Pages 583-592**

PAGES 583-584

*No answers required.***PAGES 585-590 - FALL INTO MULTIPLICATION**

Match the answer and question cards correctly. Copy your answers onto page 589. Check your answers with page 590. Answers are also repeated here.

- |          |          |           |
|----------|----------|-----------|
| A. 2356  | B. 3,227 | C. 9,086  |
| D. 708   | E. 5,072 | F. 24,584 |
| G. 1,196 | H. 2,292 | I. 5,060  |
| J. 1,073 | K. 1,760 | L. 49,884 |

**PAGE 591 - MULTIPLYING WITH TWO DIGITS**

- $23 \times 12 = 276$  eggs
- $37 \times 14 = 518$  balloons
- $17 \times 22 = 374$  eggs
- $11 \times 19 = 209$  roses
- $27 \times 41 = 1107$  Hershey's Kisses

**PAGE 591 - MULTIPLYING MULTI-DIGITS**

- $1440 \times 7 = 10,080$  minutes
- $2,396 \times 5 = \$11,980$
- $572 \times 8 = 4,576$  blocks
- $14,209 \times 9 = 127,881$  dots
- $45 \times 8 = 360$  musical scores

**4.NBT.6 : Pages 593-602**

PAGES 593-594

*No answers required.***PAGES 595-600 - DOGHOUSE DIVISION**

Match the answer and question cards correctly. Copy your answers onto page 599. Check your answers with page 600. Answers are also repeated here.

- |          |            |          |
|----------|------------|----------|
| A. 65r2  | B. 1,541   | C. 1,307 |
| D. 419   | E. 2,340r1 | F. 28    |
| G. 125r2 | H. 1,054r2 | I. 624r2 |
| J. 77    | K. 718     | L. 173   |

**PAGE 601 - DIVISION**

- $457 \div 8 = 50$  peanuts, 7 remainders
- $1728 \div 6 = 288$  stickers, 0 remainders
- $496 \div 8 = 62$  students, 0 remainders
- $633 \div 4 = 158$  guests, 1 remainder
- $15,782 \div 9 = 1,753$  beads, 5 remainders

**PAGE 602 - DIVISION**

Answers are left to right...

COLUMN 1:	COLUMN 2:	COLUMN 3:
308r2	226	48r3
87r3	874r1	2618
97r6	767r5	578
812r2	92r1	69r2
113r2	157	60r2
64r6	176	457
3729r1	6268	3217r2

**4.NF.1 : Pages 603-616**

PAGES 603-604

*No answers required.***PAGES 605-614 - WILL YOU BE MY EQUIVALENT VALENTINE?**

Practice matching equations cards to the heart fraction cards. Practice those skills on page 614. Sample answers are included, using  $x2/x2$  and  $x3/x3$ ... Page 613's fraction pieces are required to answer #7 and #8 on page 614.

- $2/6, 3/9$
- $2/4, 3/6$
- $4/6, 6/9$
- $4/8, 6/12$
- $2/8, 3/12$
- $4/10, 6/15$
- The same area is colored. it takes  $2 \times 1/6$  to make  $1/3$ .
- If the denominator doubles, to remain equivalent, the numerator must also double in size.

**PAGE 615 - ARE THEY EQUIVALENT?** $\neq$  stands for NOT EQUAL

COLUMN 1:	COLUMN 2:
$3/9 = 6/18$	$8/12 = 16/24$
$9/12 = 18/24$	$9/12 \neq 12/20$
$4/8 \neq 6/8$	$9/21 \neq 6/12$
$21/24 = 42/48$	$12/16 \neq 21/63$

**PAGE 616 - ARE THEY EQUIVALENT?**

- $1/2 = 2/4, 5/10, 7/14, 8/16, 9/18, 10/20$   
 $3/4 = 9/12, 12/16, 21/28, 24/32, 27/36, 30/40$   
 $1/3 = 2/6, 3/9, 5/15, 7/21, 9/27, 10/30, 11/33$   
 $1/5 = 2/10, 3/15, 4/20, 5/25, 8/40$   
 NOT USED:  $4/6, 18/24$ , since these are both  $2/3$   
 $7/12 = 14/24, 21/36, 28/48, 35/60, 42/72$ ...

**4.NF.2 : Pages 617-636**

PAGES 617-618

*No answers required.***PAGES 619-633 - LET'S COMPARE FRACTIONS**

Take 2 fraction cards and compare their sizes using the  $< = >$  symbols. Write your comparisons on page 633. Answers vary.

**PAGE 634 - COMPARING FRACTIONS**

Answers from left to right...

COL 1:	COL 2:	COL 3:	COL 4:
$12/24 < 15/24$	$63/72 > 18/72$	$7/42 < 18/42$	$14/63 < 27/63$
$24/42 < 35/42$	$32/72 > 27/72$	$40/45 > 27/45$	$21/24 > 8/24$
$42/63 < 45/63$	$654/72 > 16/72$	$54/63 > 28/63$	$20/40 < 24/40$
$28/42 > 18/42$	$14/21 > 12/21$	$4/18 < 12/18$	$9/54 < 36/54$
$91/130 > 20/130$	$12/36 = 12/36$	$35/84 < 72/84$	$7/56 < 16/56$
$36/63 < 32/36$	$20/60 < 35/60$	$30/70 < 35/70$	$15/36 > 12/36$

**PAGE 635 - MORE? LESS? EQUAL?**

- |                    |                    |
|--------------------|--------------------|
| 1. $8/12 > 12/20$  | 2. $12/16 = 24/32$ |
| 3. $4/8 = 12/24$   | 4. $9/24 < 35/56$  |
| 5. $28/32 > 56/80$ | 6. $16/24 > 6/12$  |
| 7. $2/10 = 5/25$   | 8. $9/12 > 12/18$  |

**PAGE 636 - COMPARING FRACTION MODELS**

- |                    |                    |
|--------------------|--------------------|
| 1. $3/6 < 8/12$    | 2. $12/16 > 12/20$ |
| 3. $9/18 = 6/12$   | 4. $9/24 < 20/35$  |
| 5. $12/16 > 56/80$ | 6. $16/24 > 12/20$ |
| 7. $3/15 = 5/25$   | 8. $12/16 > 12/18$ |



**4.NF.3 : Pages 637-657**

PAGES 637-638

No answers required.

PAGES 639-648 - FRAC-MAN (FRACTIONS)

Play the game, solve fractions. Record answers on page 648.  
Answers vary according to problems chosen.

PAGE 649-654 - FRAC-MAN (MIXED NUMBERS)

Copy down the mixed number equations. Solve for totals.

PAGE 655 - ADDING FRACTIONS

Answers are not simplified. Answers are from left to right...

COLUMN 1: COLUMN 2:

3/4	5/6
7/8	10/16
6/6 or 1	3/3 or 1
4/5	6/8
5 4/4 or 6	4 5/8
10 8/16	7 4/5
6 4/8	12 5/6

PAGE 656-657 - DECOMPOSING FRACTIONS

Answers vary. They can be broken into single pieces or more larger pieces. Answers should include at least 2 addends, just like the example. Use the fraction pieces on page 656 to help.

**4.NF.4 : Pages 658-669**

PAGES 658-659

No answers required.

PAGES 660-667 - HAPPY BIRTHDAY FRACTIONS

Match the equation cards to the gift answer cards. Practice matching answers on page 666. Answers are also on page 667 and are repeated here...

COLUMN 1: COLUMN 2: COLUMN 3:

20/9	14/3	4/6
15/7	6/5	24/9
56/8	30/7	9/7
16/6	42/8	42/7

PAGE 668 - MULTIPLY FRACTIONS BY A WHOLE NUMBER

Answers should be justified by picture or words. Answers from left to right in improper and mixed number forms...

COLUMN 1: COLUMN 2: COLUMN 3:

EXAMPLE	4/7	28/15 = 1 13/15
32/14 = 2 4/14 = 2 2/7	24/6 = 4	12/7 = 1 5/7
27/10 = 2 7/10	30/7 = 4 2/7	10/6 = 1 4/6 = 1 2/3
15/8 = 1 7/8	12/9 = 1 3/9 = 1 1/3	16/8 = 2

PAGE 669 - SOLVING PROBLEMS WITH FRACTIONS

COLUMN 1: COLUMN 2:

8 x 1/4 = 8/4 = 2 laps	6 x 4/6 = 24/6 = 4 buckets
9 x 1/3 = 9/3 = 3 roses	12 x 2/3 = 24/3 = 8 votes
7 x 1/3 = 7/3 = 2 1/3 bushels	4 x 5/8 = 20/8 = 2 4/8 cups or 2 1/2 c.
16 x 3/4 = 48/4 = 12 inches*	12 + (12 x 2/3) = 12 + 8 = 20 stickers**
* we had 1/4 less, so we need to keep 3/4 of the original	
** we had the original PLUS an extra 2/3	

**4.NF.5 : Pages 670-679**

PAGES 670-671

No answers required.

PAGES 672-677 - EQUIVALENT FRACTIONS

Practice making equivalent fractions with the game. Then practice converting fractions to have common denominators and adding them. Use these skills on the worksheet on page 677. Different answers are shown, depending on how far you want students to simplify. Answers are from left to right by row.

FIRST ROW:

$110/100 = 1 \frac{10}{100} = 1 \frac{1}{10}$

$80/100 = 8/10 = 4/5$

$30/100 = 3/10$

SECOND ROW:

$120/100 = 1 \frac{20}{100} = 1 \frac{2}{10} = 1 \frac{1}{5}$

$90/100 = 9/10$

$120/100 = 1 \frac{20}{100} = 1 \frac{2}{10} = 1 \frac{1}{5}$

THIRD ROW:

$70/100 = 7/10$

$150/100 = 1 \frac{50}{100} = 1 \frac{5}{10} = 1 \frac{1}{2}$

$170/100 = 1 \frac{70}{100} = 1 \frac{7}{10}$

PAGE 678 - ADDING FRACTIONS WITH DENOMINATORS 10 &amp; 100

There are multiple answers in most boxes. Answers shown are blanks from top to bottom and left to right...

COLUMN 1: COLUMN 2: COLUMN 3:

100	60, 68/100	30, 39/100
70, 79/100	10, 13/100	90, 90, 2, 92/100
40, 40, 5, 45/100	50, 50, 8, 58/100	90, 90, 4, 94/100
60, 60, 6, 66/100	30, 30, 7, 37/100	60, 60, 1, 61/100
50, 50, 7, 57/100	20, 20, 2, 22/100	80, 80, 6, 86/100

PAGE 679 - ADDING FRACTIONS WITH DENOMINATORS 10 &amp; 100

Answers shown only. Work should be shown to show conversions. There is no simplification in the answers...

EXAMPLE	1. 58/100	2. 29/100
3. 15/100	4. 38/100	5. 82/100
6. 44/100	7. 71/100	8. 95/100
9. 73/100	10. 83/100	11. 92/100
12. 75/100	13. 46/100	14. 63/100
15. 98/100	16. 27/100	17. 55/100
18. 87/100	19. 97/100	20. 48/100
21. 32/100	22. 26/100	23. 81/100

**4.NF.6 : Pages 680-689**

PAGES 680-681

No answers required.

PAGES 682-687 - DECIMAL CAMPOUT

Convert fractions to decimals. Practice these skills on page 686.

COLUMN 1: COLUMN 2: COLUMN 3:

.40	.34	.62
.89	.80	.50
.70	.53	.41
.30	.60	.27

PAGE 688 - MODELING WITH FRACTIONS AND DECIMALS

COLUMN 1: COLUMN 2: COLUMN 3:

5/10 = .50	4/10 = .40	9/10 = .90
31/100 = .31	77/100 = .77	63/100 = .63
.70	6/10	4/10
71/100	.65	29/100

PAGE 689 - FINDING THE RIGHT PLACE ON THE NUMBER LINE

TOP LINE: 0.1, 0.2, 0.3, 0.4, (0.5), 0.6, 0.7, 0.8, 0.9, (1.0), 1.1, 1.2, 1.3, 1.4, (1.5), 1.6, 1.7, 1.8, 1.9, (2.0)

MIDDLE LINE: 0.01, 0.02, 0.03, 0.04, (0.05), 0.06, 0.07, 0.08, 0.09, (0.10), 0.11, 0.12, 0.13, 0.14, (0.15), 0.16, 0.17, 0.18, 0.19, (0.20)

BOTTOM LINE: .25, .34, .4, .57, .7, .75, .82, 1.2, 1.36, 1.29, 1.43, 1.7, &amp; 1.9 (graph these in proper places)

**4.NF.7 : Pages 690-708**

PAGES 690-691

*No answers required.***PAGES 692-706 - DEALING DECIMALS**

Practice comparing decimals with the cards. Then, practice those skills on page 706.

**TOP ROW:**

color 6 columns and 5 single boxes

0.06, 0.16, 0.60

0.26

**MIDDLE ROW:**

&gt;, &lt;, =

color 3 columns and 7 single boxes

**BOTTOM ROW:**

0.86

0.70 &gt; 0.56

**PAGE 707 - COMPARING DECIMALS TO HUNDREDTHS**

Answers from left to right...

<u>COLUMN 1:</u>	<u>COLUMN 2:</u>	<u>COLUMN 3:</u>
.350 < .460	.320 < .380	.280 > .240
.370 = .370	.850 < .890	.530 < .580
.670 > .660	.170 > .110	.330 < .640
.990 > .920	.900 = .900	.330 < .370
.550 > .520	.290 < .390	.290 < .300
.200 = .200	.530 < .550	.850 < .890

**PAGE 708 - ORDERING DECIMALS TO HUNDREDTHS**

- G->L = 7.99, 7.92, 7.90, 7.84, 7.82, 7.74
- G->L = 5.72, 5.61, 5.45, 4.98, 4.12, 4.01
- G->L = 9.46, 9.34, 9.11, 9.08, 9.00, 9.00 (rounded numbers)
- G->L = 3.71, 3.56, 3.21, 3.14, 3.01, 2.99
- L->G = 6.26, 6.33, 6.52, 6.62, 6.79, 6.91
- L->G = 1.20, 1.30, 1.36, 1.46, 1.97, 2.00 (rounded numbers)
- L->G = 3.23, 3.71, 4.04, 4.20, 4.99, 5.12
- L->G = .72, .88, 1.03, 1.99, 2.22, 2.30 (rounded numbers)

**4.MD.1 : Pages 709-718**

PAGES 709-710

*No answers required.***PAGES 711-716 - MEASUREMENT CONVERSION**

Assemble the Measurement book. Convert the first 7 measurements in each unit.

**FEET TO INCHES:**

12, 24, 36, 48, 60, 72, 84

**METERS TO CENTIMETERS:**

100, 200, 300, 400, 500, 600, 700

**KILOMETERS TO METERS:**

1000, 2000, 3000, 4000, 5000, 6000, 7000

**GALLONS TO QUARTS:**

4, 8, 12, 16, 20, 24, 28

**LITERS TO MILLILITERS:**

1000, 2000, 3000, 4000, 5000, 6000, 7000

**KILOGRAMS TO GRAMS:**

1000, 2000, 3000, 4000, 5000, 6000, 7000

**POUNDS TO OUNCES:**

16, 32, 48, 64, 80, 96, 112

**MINUTES TO SECONDS:**

60, 120, 180, 240, 300, 360, 420

**HOURS TO MINUTES:**

60, 120, 180, 240, 300, 360, 420

**PAGE 717 - KNOW YOUR MEASUREMENTS****ANSWERS:**

100, 200, 300

1000, 2000, 3000

16, 32, 48

1000, 2000, 3000

60, 120, 180

**ORDERED PAIRS:**

(1, 100) (2, 200) (3, 300)

(1, 1000) (2, 2000) (3, 3000)

(1, 16) (2, 32) (3, 48)

(1, 1000) (2, 2000) (3, 3000)

(1, 60) (2, 120) (3, 180)

**PAGE 718 - TIME TO CONVERT!**

Answers are from top to bottom by chart column...

**METRIC MASS ANSWERS...**

<u>KILOGRAMS:</u>	<u>GRAMS:</u>	<u>MILLIGRAMS:</u>
2000	50,000	3000
2	3000	5
8000	4	2,000,000

**METRIC LENGTH ANSWERS...**

<u>KM:</u>	<u>M:</u>	<u>CM:</u>	<u>MM:</u>
1000	300	100	5
3000	4000	5	8
2,000,000	5	90	9

**CUSTOMARY LENGTH...**

<u>MILE:</u>	<u>YARD:</u>	<u>FOOT:</u>	<u>INCH:</u>
15,840	36	6	2
3520	216	72	2
26,400	6	108	4

## 4.MD.2 : Pages 719-729

PAGES 719-720

No answers required.

### PAGES 721-727 - PIRATE PROBLEMS

Choose a card from each set and solve it. Answers vary according to problem cards chosen. Answers are on page 727, and are repeated here.

SET A:	SET B:
A1 - 6 ft	B1 - 2 hrs, 50 mins
A2 - 187 miles	B2 - 3:00 PM
A3 - 22.5 ft	B3 - 12:35 AM
A4 - 77 cm	B4 - 1:25 PM

SET C:	SET D:
C1 - 4 days	D1 - 600,000 lbs
C2 - 1 3/4 gallons	D2 - 7.68 oz
C3 - 160 cups	D3 - 82.2 kg
C4 - 100 days	D4 - 62 kg

SET E:
E1 - \$1,551.05
E2 - \$268
E3 - 25 pirates
E4 - \$3,800.04

### PAGE 728 - SOLVING PROBLEMS

Answers from left to right...

COLUMN 1:	COLUMN 2:
\$113.01 and \$656.38	6:07
10 ft 1 in, 10 hr 5 min, 11 lbs 14 oz	\$0.78
\$38.53 & \$1496.67 (top 2 problems)	2pk is better at .40 cents
\$234537.76 & \$125206.91 (bottom 2)	vs 3 pk at .41 cents each

### PAGE 729 - SOLVING PROBLEMS

- 9 spoons + (9+7 knives) + (9x2 forks) = 43 pieces
- $65 - (10 + 14 + 12 + 22) = \$7$
- $(14 \times 2) + (22 \times 3) + (3 \times 1) = 97$  wheels
- $(34 + 17 + 24 + 20) \div 5 = 19$  treats

## 4.MD.3 : Pages 730-741

PAGES 730-731

No answers required.

### PAGES 732-739 - PIRATE AREA AND PERIMETER

Match the question and answer cards. Put your answers on the half-sheet answer cards on pages 738-739. Answers are on page 739 and are repeated here.

A. 120 ft	B. 375 sq ft
C. 80 ft	D. 96 sq ft
E. 36 ft	F. 1,071 sq in (7.44 sq ft)

### PAGE 740 - FINDING PERIMETER AND AREA

Answers from left to right...

COLUMN 1:	COLUMN 2:
P = 46 ft, A = 130 sq ft	45 cm
5 ft	P = 384 in, A = 9216 sq in (64 sq ft)
\$1260 for 28 sq yds	\$52 for 26 linear feet

### PAGE 741 - FINDING PERIMETER AND AREA

Answers from left to right...

COLUMN 1:	COLUMN 2:
7 cm	4605 ft
578 sq mm	5 in
3 cm	64 cm

## 4.MD.4 : Pages 742-757

PAGES 742-743

No answers required.

### PAGES 744-755- FROSTING FRACTIONS

Choose 2 problems from each set. Match the problem cards to the answer number lines. Answers vary according to problem cards chosen. Answers are on page 755, and are repeated here.

SET A:	SET B:
A1 - 6/8 or 3/4 cup	B1 - 1/3 batch
A2 - 2/8 or 1/4 tsp	B2 - 5/8 tsp
A3 - 1 cup	B3 - 2/8 or 1/4 batch
A4 - 3/4 cup	B4 - 4/8 or 1/2 cup

SET C:	SET D:
C1 - 1 1/2 cup	D1 - 2/3 lb
C2 - 1 1/2 tsp	D2 - 2/3 cup
C3 - 10/8 cup = 1 2/8 = 1 1/4 c	D3 - 2/4 or 1/2 batch
C4 - 12/8 cup = 1 4/8 = 1 1/2 c	D4 - 3/8 cup

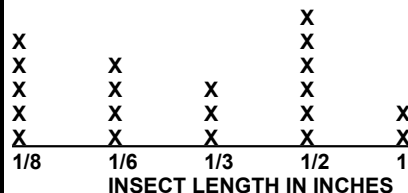
### PAGE 756 - LINE PLOTS

COLUMN 1:	COLUMN 2:
1. 110 children	1. 30 eggs
2. 45 children	2. 3 times larger
3. 10 more	3. 6 more
4. 30/110 is about 27%	4. 6/30 = 20%

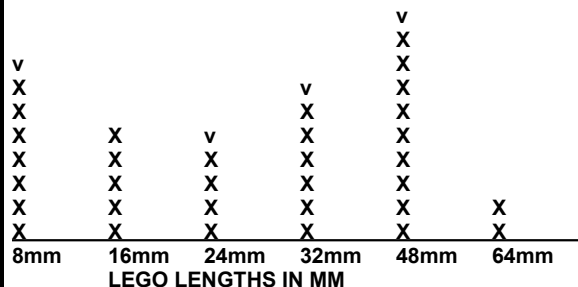
### PAGE 757 - MAKING LINE PLOTS

Questions and answers for each plot will vary.

Left graph: Each X counts for 1 insect.



Right graph: Each X counts for 2 legos, and v counts for a half X, or 1 lego.



**4.MD.5 : Pages 758-780**

PAGES 758-759

No answers required.

**PAGES 760-773 - STAR WARS RAYS AND ANGLES**

Play the card game with protractors. The largest angle wins!  
Copy the measurements onto the answer sheets from pages 767-773. Make sure the character pictures match up with the character in the background on the answer sheet.

**PAGES 774-778 - STAR WARS**

In this simplified version of the game, play war with just the 2 card sets, comparing angles to win.

**PAGE 779 - TURNS AND DEGREES**

Answers from left to right...

COLUMN 1:	COLUMN 2:	COLUMN 3:
1/2 turn	1/4 turn	90 degrees
90 degrees	3/4 turn	less than 90
1 full turn	more than 180	180 degrees

**PAGE 780 - MORE TURNS AND DEGREES**

Hints for answers from left to right...

COLUMN 1:	COLUMN 2:
any right angle	any acute angle
any obtuse angle	greater than 180.
180 degree/straight angle	greater than 180

**4.MD.6 : Pages 781-794**

PAGES 781-782

No answers required.

**PAGES 783-792 - MEASURING MONSTROUS ANGLES**

Measure the angles and match the monster answer cards. Write answers on page 791. Correct answers are on page 792, and are repeated here...

A. 90°	B. 40°
C. 140°	D. 10°
E. 170°	F. 85°
G. 180°	H. 25°
I. 135°	J. 110°

**PAGE 793 - DRAWING ANGLES**

Draw each angle in the boxes provided. Classification answers are here:

COLUMN 1:	COLUMN 2:	COLUMN 3:
acute	obtuse	acute
obtuse	obtuse	acute
right	acute	acute
acute	obtuse	straight

**PAGE 794 - MEASURE THE ANGLES**

Draw each angle in the boxes provided. Classification answers and approximate angle measures +/- 5 degrees are here. Angle measures may depend on your printer settings...

COLUMN 1:	COLUMN 2:	COLUMN 3:
45° acute	135° obtuse	100° obtuse
180° straight	90° right	30° acute
120° obtuse	90° right	180° straight

**4.MD.7 : Pages 795-806**

PAGES 795-796

No answers required.

**PAGES 797-804 - UP, UP, AND AWAY**

Answer the questions about angle measures. Write answers on page 803. Correct answers are on page 804 and are repeated here...

A. 145°	B. 40°
C. 40°	D. 55°
E. 45°	F. 120°
G. 130°	H. 155°

**PAGE 805 - MEASURE THE ANGLES**

Answers are in degrees. Answers from left to right...

COLUMN 1:	COLUMN 2:	COLUMN 3:
50°	11°	135°
162°	90°	25°
45°	80°	85°

**PAGE 806 - SOLVING PROBLEMS WITH ANGLES**

Answers are in degrees. Answers from left to right...

COLUMN 1:	COLUMN 2:
30°	127°
45°	134°
60°	55°

**4.G.1 : Pages 807-819**

PAGES 807-808

No answers required.

**PAGES 809- - BAKING WITH GEOMETRY**

Match the picture cards to the word cards. Write the correct numbers of the cards in the boxes on page 816. Correct answers are on page 817 and are repeated here.

POINT:	LINE:	LINE SEGMENT:
2,14,21	6,11,24	4,15,19
RAY:	RIGHT ANGLE:	ACUTE ANGLE:
8,10,17	5,16,25	1,18,27
PARALLEL:	OBTUSE ANGLE:	PERPENDICULAR:
7,12,23	9,13,26	3,20,22

**PAGE 818 - DRAWING LINES AND ANGLES**

Illustrate the proper lines and angles.

**PAGE 819 - IDENTIFY PROPERTIES OF SHAPES**

This is best done with colored pencils, since some shapes have multiple answers.

SQUARE: Lines AB+CD, AC+BD

RECTANGLE: Lines EF+GH, EG+FH

TRAPEZOID: Lines KL+MN

PARALLELOGRAM: Lines UR+TS, UT+RS

SQUARE: Segments AB, BD, CD, AC

HEXAGON: Segments EI, IF, FH, HJ, JG, GE

TRIANGLE: Segments KL, LM, MK

PARALLELOGRAM: Segments UR, RS, ST, TU

SQUARE: Angles CAB, ABD, BDC, DCA

RECTANGLE: Angles GEF, EFH, FHG, HGE

TRIANGLE: Angle KML

TRAPEZOID: Angle RTS

TRAPEZOID: Angles ACD, CDB

PARALLELOGRAM: Angles EGH, EFH

TRIANGLE: Angles KLM, LMK, MKL

TRIANGLE: Angles URS, RSU

TRAPEZOID: Angles CAB, ABD

PARALLELOGRAM: Angles GEF, GHF

HEXAGON: all 6 angles are obtuse at 120 degrees each

PENTAGON: all 5 angles are obtuse at 108 degrees each

**4.G.2 : Pages 820-844**

PAGES 820-821

No answers required.

**PAGES 822-830 - BATTLE SHAPES**

Practice sorting the shapes by characteristics. Use the 2 column charts or the venn diagrams.

**PAGES 831-836 - BATTLE SHAPES**

Play the battleship style game by 'firing' characteristics at the shapes parked in different coordinates.

**PAGES 837-841 - SHAPE PROPERTIES**

Match the properties to the shapes. Here is a list of possible answers for each...

**RECTANGLE:**

4 sides, 2 sets of perpendicular lines, 4 right angles, 2 congruent sides, all sides are straight, opposite lines are parallel

**RIGHT TRIANGLE:**

3 sides, at least 1 acute angle, no congruent sides, 1 right angle, 1 set of perpendicular lines, all sides are straight

**CIRCLE:**

0 sides (1 curved side actually), no parallel lines, no congruent sides, no angles

**TRAPEZOID:**

4 sides, 1 set of parallel lines, at least 1 obtuse angle, at least one acute angle, 2 congruent sides, all sides are straight

**EQUILATERAL TRIANGLE:**

3 sides, at least one acute angle, all sides are congruent, all sides are straight

**SQUARE:**

4 sides, 2 sets of perpendicular lines, opposite lines are parallel, all sides are congruent, 4 right angles, all sides are straight

**PARALLELOGRAM:**

4 sides, 2 congruent sides, all sides are straight, opposite lines are parallel, at least one acute angle, at least one obtuse angle

**PENTAGON:**

5 sides, all sides are straight, at least one acute angle, all sides are congruent

**PAGE 842 - SHAPE PROPERTIES**

SHAPE: PARA.: PERP.: RIGHT: ACUTE: OBTUSE:

Square	Yes 2	Yes 2	4	0	0
Circle	No	No	0	0	0
Equi. T.	No	No	0	3	0
Rect.	Yes 2	Yes 2	4	0	0
Right T.	No	Yes 1	1	2	0
Para.	Yes 2	No	0	2	2
Penta.	No	No	0	0	5
Trape.	Yes 1	No	0	2	2

**PAGE 843 - CLASSIFYING TWO-DIMENSIONAL FIGURES**

Sample answers by box...

RIGHT ANGLES ONLY: rectangle, square

ONE SET OF PARALLELS: trapezoids (isosceles and right)

2 ACUTE ANGLES: trapezoid, parallelogram, rhombus

RIGHT ANGLES: right triangle, right trapezoid, rectangle, square

MORE THAN ONE SET: rectangle, square, rhombus, parallelogram

TRIANGLES: Equilateral, Right, Scalene

**PAGE 844 - CLASSIFYING TWO-DIMENSIONAL FIGURES**

Sample answers by section of venn...

1+ PARALLELS: BOTH: 1+ RIGHT ANGLE:

isosceles trapezoid	square	right triangle
hexagon	rectangle	
octagon	right trapezoid	
parallelogram		
rhombus		

**4.G.3 : Pages 845-851**

PAGES 845-846

No answers required.

**PAGES 847-849 - SEASIDE SYMMETRY**

Sort the asymmetrical and symmetrical shapes into piles.

Practice those skills on page 849.

TRIANGLE: 3 symmetry lines, cutting from any corner through to the middle of the opposite side.

ARROW: 1 symmetry line, cutting from the point along the length horizontally.

STAR: 5 symmetry lines, cutting from any point to the indentation opposite it.

PARALLELOGRAM: 4 symmetry lines, cutting from corner to opposite corner, or from any middle of a side to the opposite middle of a side.

HEXAGON: 6 symmetry lines, cutting from corner to opposite corner, or from any middle of a side to the opposite middle of a side.

CIRCLE: Radial symmetry = infinite symmetry lines, so long as they are a proper diameter line, cutting through the center point.

CRESCENT: 1 symmetry line, cutting from the center point of the bulge to the middle of the indentation opposite it.

HEART: 1 symmetry line, cutting from the indentation down to the point.

CROSS: 4 symmetry lines, cutting from the center of any end to the opposite end, or cutting from the indentation corners to the opposite indented corner.

**PAGE 850 - FINDING SYMMETRY**

COLUMN 1:	COLUMN 2:	COLUMN 3:
yes, 2 lines	yes, 1 line	yes, 1 line
no	yes, 5 lines	yes, 1 line
yes, 4 lines	no	yes, infinite lines

**PAGE 851 - FINDING SYMMETRY**

COLUMN 1:	COLUMN 2:	COLUMN 3:
yes, 10 lines	yes, 1 line	yes, 3 lines
yes, 2 lines	yes, 5 lines	yes, 1 line

complete these drawings for the bottom row

**END OF FOURTH GRADE WORKBOOK**