

Mrs. Brown Third Grade April 20-May 8 AMI

- April 20-28 Read p.456-476 Aero and Officer Mike
- April 29-May 8 Read p. 486-508 The Extra-Good Sunday
- Workbook pages for Aero and Officer Mike:
April 20-28 Workbook pages:
20th p. 183-184; 21st p.185-185; 22nd p. 187-188; 23rd p.189-190;
24th 191-192; 27th p. 193-194; 28th p. 195-196
- April 29-May 8 Read The Extra-Good Sunday
- April 29-May 8 Reading Workbook Pages:
29th p.197-198; 30th p.199-200; May 1 p. 201-202;
May 4th p. 203-204; 5th p. 205-206; 6th p. 207-208;
7th 209-210

Math Workbook April 20 - May 8

20th p.667-668	30th p. 691-692
21st p.669-670	May 1 p. 693-694
22nd p.673-674	May 4th p. 695-696
23rd p.676	May 5th p. 699-700
24th p.677-678	May 6th p.701-702
27th p.679	May 7th p. 705-706
28th p. 683-684	May 8th Catch Up Day
29th Read Vocabulary Cards	

Please Finish The Arkansas History Booklet by May 8th.

Turn in all chromebooks, computers, AMI packets, reading books, and Fraction Towers by May 11th.

Thank You!

Words with *ar, or, ore*

Aero and Officer Mike
Phonics: Words with
ar, or, ore

Read each sentence. Choose the missing word from the box.
Write the word. Then reread the sentence.

Mars	morning	cart
chores	parking	largest
artistic	explore	parlor

1. My house is the _____ house on the street.
2. "Step into my _____," said the spider to the fly.
3. The bold scientists planned to _____ the bottom of the ocean.
4. The driver looked for a _____ space for five minutes.
5. Put your groceries in the _____.
6. _____ is my favorite time of day.
7. Painting, singing, and dancing are _____ hobbies.
8. I wish I could fly to the planet _____.
9. Taking out the trash and making my bed are on my list of _____.

Pronoun-Verb Agreement

Aero and Officer Mike
Grammar:
Pronouns and Verbs

- Verbs show action in sentences and when that action happens. Verbs that tell about actions that are happening now are in the **present tense**.
- You add *-s* or *-es* to the verb when the pronoun in the subject is *he*, *she*, or *it*.
- You do not add *-s* or *-es* to the verb when the pronoun in the subject is *I*, *you*, *we*, or *they*.

She barks very loudly.

They bark even more loudly.

Thinking Question

Does the subject pronoun refer just to one person or does it refer either to me or to more than one person?

Underline the correct present-tense verb in parentheses. Then write each sentence correctly.

1. You (find, finds) dogs of all different types.

2. He (choose, chooses) the ones that are the best.

3. It (seem, seems) that you know dogs well.

4. We (feel, feels) that you should choose the dogs.

5. They (want, wants) to pick out some dogs, too.

Author's Purpose

Aero and Officer Mike
Introduce Comprehension:
Author's Purpose

Read the passage below.

The first animals that human beings tamed were dogs. The earliest dogs probably came from wolves or related animals. Perhaps people found wolf cubs and raised them. The cubs quickly learned how to live with people. The oldest dog bones that scientists have found are about 12,000 years old.

The next animals to be tamed were sheep, goats, cattle, and pigs. People used them for meat, dairy, and wool. These four types of farm animals were first tamed about 11,000 to 9,000 years ago.

House cats were first bred more than 5,000 years ago. People also began to tame horses about 5,000 years ago in central Asia. They were first used for milk and meat. Later, people began to ride them.

People later learned to tame other kinds of animals, including camels, chickens, and elephants. You'll never guess what the most recent animal to be tamed is. It's the hamster! All hamsters were wild until 1930. That year, someone captured a wild female hamster and her young. Scientists used the hamsters in experiments. Today, every single pet hamster comes from that first captured mother and her babies!

Complete the Inference Map to show details in the selection that help you infer the author's purpose. Write complete sentences.

Text Detail	Text Detail	Text Detail
Purpose		

More Pronoun-Verb Agreement

- Most verbs in the present end with *-s* when the pronoun in the subject is *he, she, or it*. Add *-es* to verbs that end in *-s, -sh, -ch, or -x*.
- Do not add *-s* or *-es* to verbs when the pronoun in the subject is *I, you, we, or they*.
- Some verbs end with a consonant and *y*. Change the *y* to *i* and add *-es* when the pronoun in the subject is *he, she, or it*.
- You do not change the *y* to *i* and add *-es* when the pronoun in the subject is *I, you, we, or they*.

Thinking Question

Does the verb end in *s, sh, ch, x* or with a consonant and *y*, and what is the pronoun in the subject?

Underline the correct present-tense verb in parentheses. Then write each sentence correctly.

1. You (push, pushes) the cart filled with hay out to the fields.

2. It (pass, passes) over the old bridge.

3. We (guess, guesses) when you will reach the horses.

4. They (march, marches) across the hills to the food.

Words with Vowel + /r/ Sounds

Aero and Officer Mike

Spelling:
Vowel + /r/ Sounds

Write the correct Basic Words in each box.

Write the words that contain the vowel + <i>r</i> sound in <i>far</i> .	Write the words that contain the vowel + <i>r</i> sound in <i>or</i> .
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Spelling Words

Basic

1. horse
2. mark
3. storm
4. market
5. acorn
6. artist
7. March
8. north
9. barking
10. stork
11. thorn
12. forest
13. chore
14. restore

Review

dark
story

Challenge

partner
fortune

Challenge

1. Does *partner* contain the vowel sound in *far* or the vowel sound in *or*? _____
2. Does *fortune* contain the vowel sound in *far* or the vowel sound in *or*? _____

Aero and Officer Mike

Writing:
Write to Narrate

Focus Trait: Ideas

Choosing an Important Event and Purpose

An autobiography tells the story, or part of the story, of a person's life. Good autobiographers ask, *What experiences have I had that my readers would like to know about?*

Look carefully at the chart below. Look at the events and the author's purpose. Circle the event that you think readers will find most interesting and best fits the author's purpose. On the lines provided below the chart, give reasons for your answer.

Events	Author's Purpose
getting lost at the mall, learning to ride a bike, spending time with my grandmother, visiting the Grand Canyon	To tell readers about an important lesson I learned

Name _____ Date _____

Cumulative Review

Aero and Officer Mike
Phonics:
Cumulative Review

Write words from the box to complete the lines of the poem.

arm	garden	I'd	shark	storm
bored	harm	I've	shore	thorns

What Didn't Go Wrong Today?

I worked in my _____₁, but I soon came to _____₂.

The sharp _____₃ of a rose badly scratched up
my _____₄!

So I went to the _____₅, for a swim and some sun,
Until a _____₆ showed its fin and scared everyone!

Then _____₇ just reached the woods, the shade of tall trees,
When a dark _____₈ filled the sky and rained on the seas!

Now, _____₉ come home, sad, with nothing to do.
If you are _____₁₀, too, may I come play with you?

Author's Purpose

Read the selection.

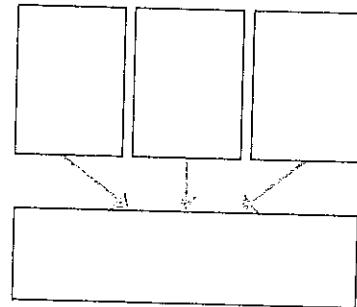
When a puppy is born, it has many things to learn. Its owners have things to learn too, especially if they have not had a dog before. For example, a new owner may not know how much to feed the puppy. A puppy should be fed three or more times a day for its first ten or twelve weeks. A young puppy should only eat dog food. After the puppy is about ten weeks old, it can be fed twice a day.

Early in the puppy's life, other things are happening too. After the puppy is five weeks old, the owner can begin to train the pup. The owner teaches the pup how to obey and how to behave on walks.

Then there are the puppy's shots. Pups usually get their rabies shots when they are about four months old. Until a puppy is four or five months old, it should not go near sick dogs or stray dogs.

Once it has been properly trained, the growing puppy is ready to take its place in the family. A well-trained dog is happy to be with people, and it knows what its owners expect.

Use an Inference Map to help you determine the author's purpose. Then answer the questions below.



1. Why do you think the author wrote this text?

2. What is the author's message about puppies and dogs?

Use details from the selection to support your answer.

Name _____ Date _____

Pronoun-Verb Agreement

Aero and Officer Mike

Grammar:
Pronouns and Verbs

Write the correct present-tense form of the verb in parentheses to complete each sentence.

1. I _____ with my cats to train them. (sleep)
2. They _____ my smell and trust me. (learn)
3. He _____ other ways to get close to his cats. (use)
4. She _____ them right out of her hand. (feed)
5. You _____ here and watch us do it. (sit)
6. We _____ water into their faces to test them. (splash)
7. It _____ your attention when you see it. (catch)
8. He _____ a special blend of pet food. (mix)
9. She _____ other food out in the yard. (bury)
10. They _____ the different ways to train pets. (study)

Words with Vowel + /r/ Sounds

Write eight words that are names for people, places, or things.

Aero and Officer Mike

Spelling:
Vowel + /r/ Sounds

Spelling Words

1. horse
2. mark
3. storm
4. market
5. acorn
6. artist
7. March
8. north
9. barking
10. stork
11. thorn
12. forest
13. chore
14. restore

Review

dark
story

Challenge

partner
fortune

Challenge

1. A person you work with is your _____.
2. If you make a lot of money, you make a
_____.

Name _____ Date _____

Prefixes *in-*, *im-*

Aero and Officer Mike

Vocabulary Strategies:
Prefixes *in-*, *im-*

Read each base word. Add the prefix shown and write a new word and its meaning.

Base Word	Prefix	New Word	Meaning
active	in		
visible	in		
definite	in		
patient	im		
perfect	im		
measurable	im		

Now write a sentence for each word above with a prefix. Make sure your sentence shows the word's meaning.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Simple Subjects and Simple Predicates

Aero and Officer Mike
Grammar:
Spiral Review

- The **subject** of a sentence tells whom or what the sentence is about. The main word in the subject is often a **noun**. It is called the **simple subject**.
- The **predicate** of a sentence tells what the subject is, was, or will be, or what the subject is, was, or will be doing. The main word in the predicate is a **verb**. It is called the **simple predicate**.

The sheep ate grass in the valley.

An old wolf watched them from the bushes.

1–4. The subject of each sentence is underlined. Write the noun in the subject.

1. The old gray coyote came out of the hills. _____
2. This smart animal will eat almost anything. _____
3. His little pups hide right behind him. _____
4. These sweet babies are hungry and tired. _____

5–8. The predicate of each sentence is underlined. Write the verb in the predicate.

5. Three fat sheep walk away from the others. _____
6. A big blue truck drives by them. _____
7. A man with boots grabs the sheep. _____
8. The coyote finds food for the pups. _____

Words with Vowel + /r/ Sounds

Find the misspelled words and circle them. Then write each word correctly.

An ortist was traveling through a deep, dark farest. He carried his paints and brushes in a bag that hung from his back. His harse was white, just like a blank canvas. He was riding to the morket, a day's ride to the narth, to sell his pictures.

Suddenly, huge gray clouds moved overhead. A starm was coming! The wind rose, and an acarn fell from a tree, hitting the man on the head. A sharp tharn from a bush stung his hand. A big white stark flapped its wings as it flew toward its nest. Then the traveler heard the borking of wild dogs in the distance. "Don't worry," he told his horse. "They're afraid of thunder and lightning."

1. _____

6. _____

2. _____

7. _____

3. _____

8. _____

4. _____

9. _____

5. _____

10. _____

Aero and Officer MikeSpelling:
Vowel + /r/ Sounds**Spelling Words**

1. horse
2. mark
3. storm
4. market
5. acorn
6. artist
7. March
8. north
9. barking
10. stork
11. thorn
12. forest
13. chore
14. restore

Reviewdark
story**Challenge**partner
fortune

Sentence Fluency

Combining two sentences that have the same noun in the subject makes your writing smoother and easier to read. Remember to use a comma and the word *and*.

Same Noun in the Subject	Pronoun Replacing Noun in the Subject
These dogs are for sports. These dogs make great pets.	These dogs are for sports, and they make great pets.
Border collies are herding dogs. Border collies are very smart.	Border collies are herding dogs, and they are very smart.

Combine each pair of sentences. Change each underlined subject to a pronoun. Write the new sentence.

1. Maltese dogs are friendly. Maltese dogs make good pets.

2. My male Great Dane is very gentle. My male Great Dane stands very tall.

3. Your female collie tends sheep. Your female collie gets burrs in her fur.

4. The people who breed dogs work very hard. The people who breed dogs love animals.

5. My family and I look for the perfect dog. My family and I find a funny one we love.

Name _____ Date _____

Words with *er, ir, ur, or*

The Extra-good Sunday

Phonics:
Words with *er, ir, ur, or*

Read each sentence. Choose the missing word from the box.

Write the word. Then reread the complete sentence.

curb

nerve

curves

worker

furry

birth

thirty

germs

1. The road _____ up ahead, so be ready to turn.
2. Having hair on the furniture is one of the problems with having a _____ dog.
3. I knew you wouldn't have the _____ to stand up to your big brother.
4. As Danielle crossed the street, she tripped on the _____ and hurt her ankle.
5. Adam does well in school because he is a hard _____.
6. Mrs. Fort gave _____ to a baby girl named Donna last week.
7. Ted decided that he wanted to own a mansion by the time he turned _____.
8. Colds and the flu are caused by _____.

Forming the Past Tense

The Extra-good Sunday

Grammar:
Forming the Past Tense

- Most verbs show past tense by adding *-ed*.
- Some verbs end with *e*. Drop the *e* and add *-ed*.

They allowed us to cook alone.

He needed eggs for the recipe.

Evan's parents liked our cooking.

Thinking Question

Can I add *-ed* to the verb to show past tense? Does the verb end in *e*?

Write each sentence using the correct past tense of the verb in parentheses.

1. Evan _____ his parents to send him to cooking school. (want)

2. We _____ to answer a newspaper ad for a school. (decide)

3. Many cooking students _____ there. (work)

4. Evan and I _____ that they would like our letter. (hope)

5. We _____ the school with the good work we did. (surprise)

Understanding Characters

The Extra-good Sunday
Introduce Comprehension:
Understanding Characters

Read the passage and look for text evidence about Brooke’s character traits. Then complete the Inference Map.

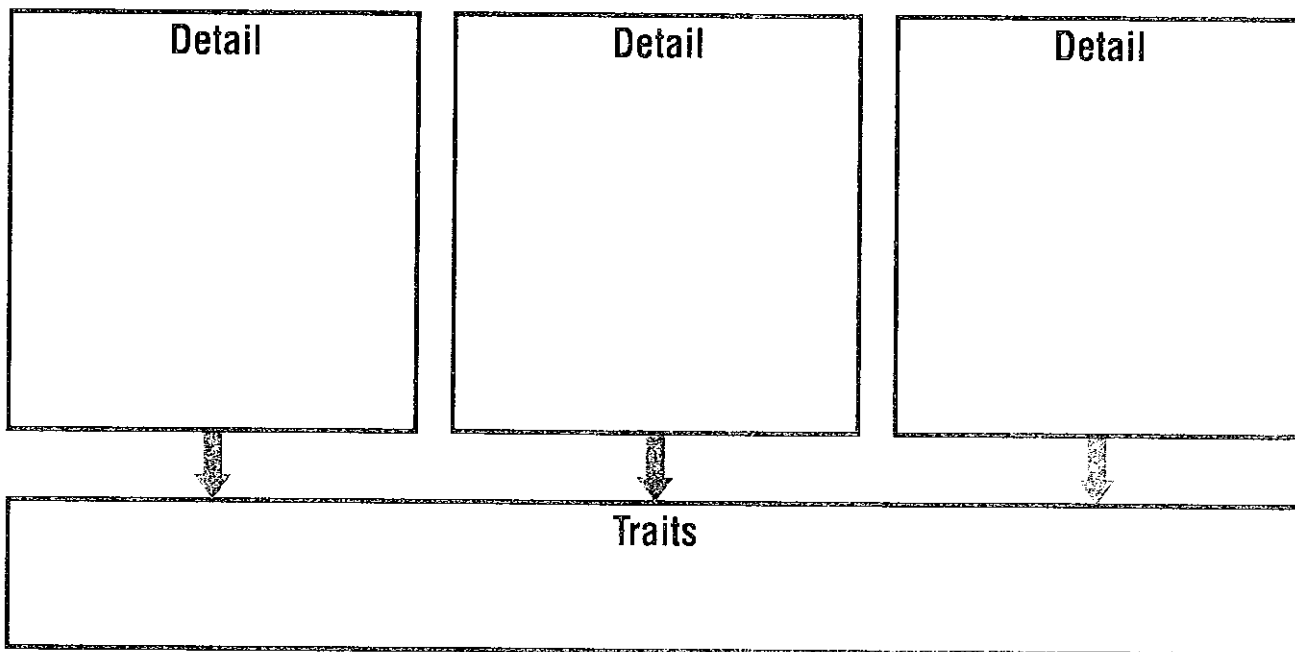
Brooke and Sean wanted to do something special for Mom on Mother’s Day. Brooke got out a pencil and pad and wrote down ideas about what they could do. She said, “Mom drinks tea every morning with toast. Maybe we can make her tea and toast and bring it to her in bed!”

Sean nodded, and they went into the kitchen. Brooke grabbed tea bags from the cabinet. She also took out bread and some butter. Sean filled the kettle and found the milk and sugar. Brooke neatly laid each item out on the counter. “You handle the tea, Sean,” Brooke told her brother, “and I’ll take care of the toast.”

In a few minutes, it was ready. Brooke placed everything on a tray. They went up to Mom’s bedroom. “What a great gift!” Mom exclaimed.

Mom took a bite of toast and a sip of tea. Right away, Brooke noticed something odd in Mom’s expression. “This is very nice of you both,” Mom said. “However, are you sure you put the tea bag in the water?”

Sean’s face went white. He had served Mom hot water with milk and sugar and forgotten to add the tea!



Forming the Past Tense

The Extra-good Sunday

Grammar:
Forming the Past Tense

- Some verbs end with a consonant and *y*. To form the past-tense verb, change the *y* to *i*, and add *-ed*.
- Some verbs end with one vowel followed by one consonant. To form the past-tense verb, double the consonant, and add *-ed*.
- The verb *dry* ends in *y*. Change the *y* to *i*, and add *-ed*. The verb *beg* ends with one vowel followed by one consonant. Double the consonant, and add *-ed*.

Thinking Question

Does the verb end with a consonant and *y* or one vowel followed by a consonant?

Write each sentence, using the correct past-tense form of the verb in parentheses.

1. Uncle Raul _____ the drying mat. (try)

2. He _____ his tea, watching his peppers dry. (sip)

3. The children _____ around the yard. (hop)

4. Uncle Raul _____ a truck bringing more peppers. (spy)

5. All the kids _____ the truck. (study)

Vowel + /r/ Sounds in *nurse*

The Extra-good Sunday

Spelling:

Vowel + /r/ Sounds in *nurse*

Write each Basic Word under the correct heading.

Words with the vowel + /r/ sound in <i>nurse</i> spelled <i>ur</i>	Words with the vowel + /r/ sound in <i>nurse</i> spelled <i>ir</i>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
Words with the vowel + /r/ sound in <i>nurse</i> spelled <i>or</i>	Words with the vowel + /r/ sound in <i>nurse</i> spelled <i>er</i>
_____	_____
_____	_____
_____	_____

Spelling Words

Basic

1. nurse
2. work
3. shirt
4. hurt
5. first
6. word
7. serve
8. curly
9. dirt
10. third
11. worry
12. turn
13. stir
14. firm

Review

her
girl

Challenge

perfect
hamburger

Challenge: Which Challenge Word can only be placed in the last box? _____

Which Challenge Word can be placed in either the first or the last box? _____

Focus Trait: Voice

Using Details to Show Thoughts and Feelings

Part of writing with voice means using sensory words and details that let your readers know how you feel about your topic. Compare the sentences below.

Weak Voice	Strong Voice
We saw the Grand Canyon. It was big and pretty. I had a good time.	When I first saw the Grand Canyon I couldn't believe my eyes. It was huge, scary, and incredibly beautiful. It was the very best vacation of my life!

The sentences below are weak in voice. Rewrite them adding details that show thoughts and feelings.

1. It was stormy. I heard wind.

2. It was a nice day. We went hiking.

3. The swing broke.

4. She called my name.

Cumulative Review

The Extra-good SundayPhonics:
Cumulative Review

Write a word from the box to complete each sentence. Then read the sentence.

certainly
firmly
sparkherd
turning
reportworking
burger
before

1. This restaurant is known for having a great _____ and tasty fries.
2. This vacation is _____ into a bad trip now that we're lost and out of money.
3. Damon gave a very interesting _____ about the rain forests.
4. I _____ don't want to spend all weekend studying.
5. The forest fire began with just a single _____.
6. Nicole was being silly when she said that she always ate lunch _____ breakfast.
7. Frank held the ball _____ as he ran.
8. The cowboys rounded up the _____ of cattle.
9. Because the dryer is not _____, my clothes are still wet.

Understanding Characters

The Extra-good Sunday
Deepen Comprehension:
Understanding Characters

Read the selection.

Mom was in the kitchen making apple pie. She called me in to help her. I was shocked. This was the first time she had ever let anyone help her. No one even knew Mom's recipe! Mom started to make the pie crust. Then she handed me an apple. "Peel this," Mom said.

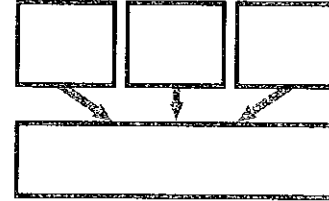
I began peeling the apple with great care. Right away, I noticed the apple smelled rotten. I grabbed another and started peeling. It was rotten, too. "Mom," I began, "I think these apples are rotten."

Mom stopped and turned. She sliced open another apple, and another. They were all rotten. Mom said, "I guess we'll have to try something new."

Within moments, Mom had a bag of potatoes in front of me. Mom just substituted potatoes for apples in her recipe!

So how did the apple-less pie taste? Honestly, it was delicious, and she gave me credit for helping her to invent it!

Use an Inference Map to write about Mom's traits. Use it to help you answer the questions below.



1. The narrator says that she is "shocked" when Mom asks for her help. Based on what you know about Mom, does this reaction seem realistic? Explain.

2. Based on what Mom says, does, and thinks in this story, predict how she would react if there had not been any potatoes in the house.

Forming the Past Tense

The Extra-good Sunday
Grammar:
Forming the Past Tense

1–4. Write each sentence using the correct past-tense form of the verb in parentheses.

1. Theo _____ to study recipes. (love)

2. He _____ them over and over again. (turn)

3. We _____ through recipes looking for a perfect meal.
(race)

4. We _____ it when we found one. (like)

5–8. Write the correct past-tense form of the verb in parentheses. The underlined letters are spelling clues.

5. The pan _____ the chicken. (fry)

6. One of us _____ to take it out before it was done. (try)

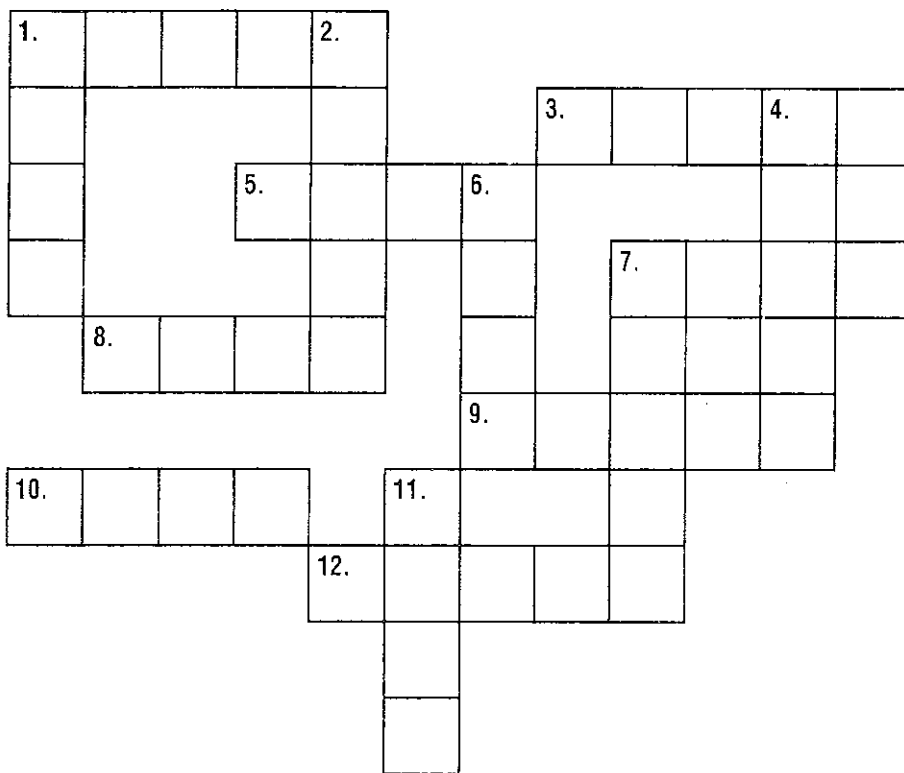
7. The younger kids _____ how I did it. (study)

8. Two of us _____ dishes to the table. (carry)

Vowel + /r/ Sounds in *nurse*

The Extra-good Sunday

Spelling:
Vowel + /r/ Sounds in *nurse*



Spelling Words

1. nurse
2. work
3. shirt
4. hurt
5. first
6. word
7. serve
8. curly
9. dirt
10. third
11. worry
12. turn
13. stir
14. firm

Review

her
girl

Challenge

perfect
hamburger

Use the Basic Words to complete the puzzle.

Across

1. Item of clothing
3. Comes before "second"
5. Soil
7. The opposite of play
8. "Please" is the magic _____.
9. A hospital worker
10. Not soft
12. The opposite of straight

Down

1. To mix
2. Comes after "second"
4. To present or give
6. Move a car right or left
7. Be concerned
11. Injured

Using a Thesaurus

The Extra-good Sunday
Vocabulary Strategies:
Using a Thesaurus

Read the book review. Look up each underlined word in a thesaurus. Write a synonym for each word.

If you haven't already, you'll want to meet Ramona Quimby. The latest adventures of this special girl appear in *Ramona Quimby, Age 8*. With her father in college and her mother back at work, Ramona has to resolve some things for herself. How will she handle her annoying young neighbor? Will her parents be cross with her when she makes a mess? Will things remain tense with Yard Ape?

There is a reason why Beverly Cleary's books remain some of America's favorites after so many years.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Write two sentences that could be in your own review of *The Extra-good Sunday*. Choose a word in each sentence to look up in a thesaurus. Write a synonym for each word.

7. _____

8. _____

Kinds of Pronouns

The Extra-good Sunday

Grammar:
Spiral Review

- A pronoun is a word that can take the place of one or more nouns in a sentence. The pronouns *I*, *you*, *he*, *she*, *it*, *we*, and *they* are subject pronouns. Pronouns can be singular or plural.
- The words *me*, *you*, *him*, *her*, *it*, *us*, and *them* are called object pronouns. Object pronouns follow action verbs and words like *to*, *for*, *at*, *of*, and *with*.

Claude did not understand his **parents**.

He did not understand **them**.

1–2. Write each sentence. Replace the underlined word or words with a subject or object pronoun.

1. Claude thinks his parents are good people.

2. Claude shows respect to his parents.

3–4. Replace the repeated noun in these sentences with a pronoun. Write the new sentences on the line.

3. Claude loves to eat. Claude enjoys eating with his family.

4. Claude loves his friends. His friends see him every day.

Proofread for Spelling

The Extra-good Sunday

Spelling:

Vowel + /r/ Sounds in *nurse*

Circle the ten misspelled Spelling Words in this diary entry. Then write each word correctly.

June 2nd

Today was the purfect day. Dad decided to take a day off from wirk, and we went to the baseball game. Our seats were on the ferst base side of the field. The grass looked so green, and the durt on the infield looked so soft. As we sat down, Dad smiled and asked if my hair was getting more cirly. Before I could say a wurd, I saw my favorite player. He is the therd baseman, and he wears number 20 on his shurt. That's my favorite number, too! The last time we came to a game, he was hirt, but he was healthy today. Dad ordered me a hambirgur, and we settled in to watch a great game.

Spelling Words

1. nurse
2. work
3. shirt
4. hurt
5. first
6. word
7. serve
8. curly
9. dirt
10. third
11. worry
12. turn
13. stir
14. firm

Review

her
girl

Challenge

perfect
hamburger

- | | |
|----------|-----------|
| 1. _____ | 6. _____ |
| 2. _____ | 7. _____ |
| 3. _____ | 8. _____ |
| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

Name _____ Date _____

Word Choice

The Extra-good Sunday

Grammar:
Connect to Writing

Using exact verbs helps the reader better picture what you are saying or writing about.

Less Exact Verb	More Exact Verb
made	cooked, roasted
put	arranged, scooped
touched	patted
moved	danced, flipped
grew	expanded

Replace each underlined verb in the sentences with a more exact verb. Use the verbs in the word box.

1. The family made dinner all together. _____
2. Sister Kate made their favorite meat in the oven. _____
3. The younger kids put plates and glasses on the table. _____
4. Brother Lance put ice cream into dishes. _____
5. Dad touched the rolls to make them flat. _____
6. Harry moved pancakes in the pan. _____
7. The people moved around the table. _____
8. The bread grew in the oven. _____

Name

Independent Practice

The following are times of baseball games. Find the time interval for each.

2. Start Time (P.M.) End Time (P.M.)

minutes + minutes + minutes = minutes

3. Start Time (P.M.) End Time (P.M.)

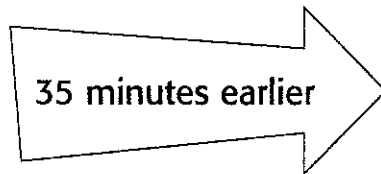
minutes

4. Start Time (P.M.) End Time (P.M.)

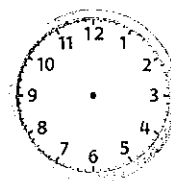
minutes

Write the time. Then draw the hands on the clock to show the time interval.

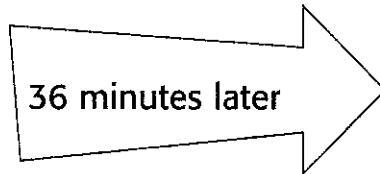
5. A.M.



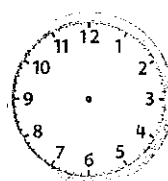
A.M.



6. P.M.



P.M.





Problem Solving

7. Tyrone started mowing lawns at 1:10 P.M. He finished mowing at 4:05 P.M. How much time did Tyrone spend mowing lawns?

8. It takes Louisa one hour and 30 minutes to get to her aunt's house. She leaves at 4:00 P.M. Draw the hands on the clock to show the time she will get to her aunt's house. Then write the time.



HOT Problems

9. **Mathematical PRACTICE** **Reason** How do the units of time, such as minutes and hours, relate to each other?

10. **Mathematical PRACTICE** **Which One Doesn't Belong?** Circle the set of digital clocks that does not show a time interval of 85 minutes. Explain.

Set A	Set B	Set C	Set D

11. **Problem Solving** How can I determine the duration of time intervals in hours?

Name _____

NO. _____

MY Homework

Lesson 6

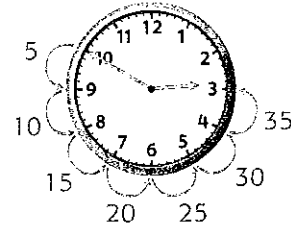
Time Intervals

Homework Helper



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Ramone took his pizza out of the oven at 2:50 P.M. The pizza had baked for 35 minutes. What time did Ramone put the pizza in the oven?



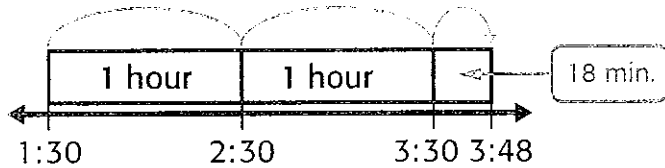
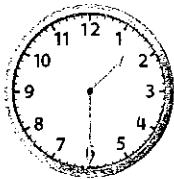
Start at 2:50 P.M. Counting by five-minute intervals, move backward around the clock until you count 35 minutes. The minute hand is on 3, and the hour is between 2 and 3.

So, Ramone put the pizza in the oven at 2:15 P.M.

Practice

The following are times of parades. Find the time interval for each.

1. Start Time (P.M.) End Time (P.M.)



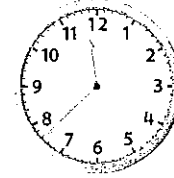
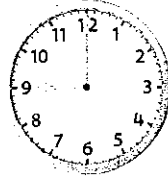
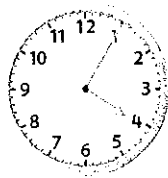
minutes + minutes + minutes = minutes

2. Start Time (P.M.)

End Time (P.M.)

3. Start Time (A.M.)

End Time (A.M.)

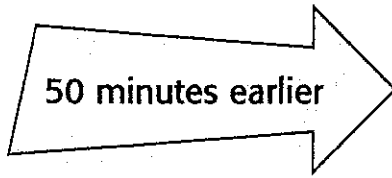


minutes

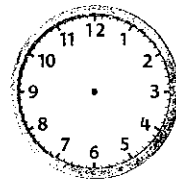
minutes

Write the time. Then draw the hands on the clock to show the time interval.

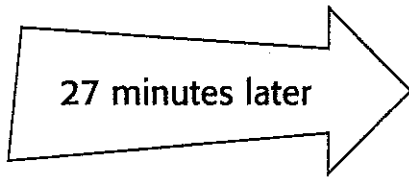
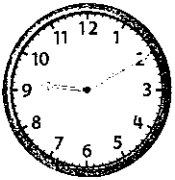
4. P.M.



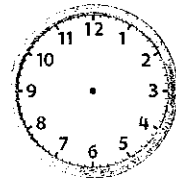
P.M.



5. A.M.




A.M.



Problem Solving

6. It took Henry 2 hours and 17 minutes to write his report. He started writing at 3:30 P.M. What time did he finish his report?

7. **Mathematical PRACTICE**  **Plan Your Solution** Melanie started working in her garden at 8:25 A.M. She took a break at 11:10 A.M. How many minutes did Melanie work before taking a break?

Vocabulary Check

8. Write a definition for a time interval.

Comprehension


9. It takes Wallace 50 minutes to do the grocery shopping. If he starts at 2:12 P.M., what time will he finish?

- (A) 2:42 P.M. (C) 3:02 P.M.
 (B) 2:52 P.M. (D) 3:07 P.M.

Name _____

Apply the Strategy

Solve each problem by working backward.


1. Ava added an additional 35 milliliters of water to a vase. She then poured out 10 milliliters of water. Now she has 26 milliliters of water left in the vase. How much water was in the vase to begin with?
2. Kenya left home for her aunt's house at 8:15 A.M. She arrived at her aunt's house 2 hours 50 minutes later. What time did she arrive? Write the time in words and numbers.
3. Cirn played at the park with 5 friends for 30 minutes, 7 friends for 1 hour, and 2 friends for 15 minutes. He arrived at the park at 1:00 P.M. What time did he leave the park?
4. Toya celebrated her birthday in March, 4 months after joining the swim team. Two months after joining the team, she swam in her first meet. What month did she swim in her first meet?
5. **CHALLENGE**  **Keep Trying** Work through this puzzle to find the number of minutes that it took Logan to clean his room. Add 8 to a number. When you subtract 10 from the sum, and double the difference you get 44. What is the number?

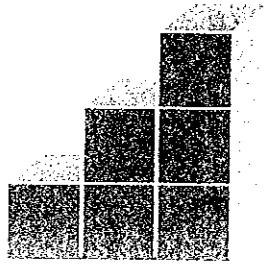


Review the Strategies

Use any strategy to solve each problem.

- Draw a diagram.
- Determine reasonable answers.
- Work backward.
- Use models.

- 6. PRACTICE**  **Model Math** Blaine built a cube staircase. How many more cubes does he need to build 6 steps?



- 7.** There are 3 children in line. Cami is right after Brock. Branden is third in line. What place is each child in line?
- 8.** Flora, Alonso, and Luz went fishing. Find how many fish each caught.

Fish Caught


Name	Fish Caught
Flora	3 more than Luz
Alonso	3 more than Flora
Luz	5 fish

- 9. Algebra** A bottle of syrup has a mass of 560 grams. If the empty bottle has a mass of 305 grams, what is the mass of the syrup? Write an equation with a letter for the unknown. Then solve.



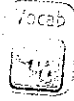
Problem Solving

Solve each problem by working backward.

1. Selma finished her shift at work at 5:40 P.M. She had been working for 4 hours and 20 minutes. What time did Selma begin her shift?
2. Riko has 3 kilograms of potatoes left. She sold 8 kilograms at the farmers' market. She gave half that amount away to neighbors. How many kilograms of potatoes did Riko have to start with?
3. Noah earned \$24 last week by pet sitting. He worked 1 hour on Friday and 3 hours on Wednesday. He worked the most hours on Monday. Noah earns \$3 per hour. How many hours did he work on Monday?
4. **Mathematical PRACTICE**  **Be Precise** It took Blake 20 minutes to walk home from school. He spent 35 minutes doing homework. Then Blake played basketball for 1 hour and 10 minutes. Now it is 5:45 P.M. and time for Blake to eat dinner. What time did he leave the school?
5. Ms. Hirose filled a bucket with water. She used 3 liters of water to rinse her front porch. She used 2 liters of water to fill the bird bath. There are 3 liters of water left in the bucket. How much water did Ms. Hirose have to begin with?

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Vocabulary Check



Use the choices in the word bank to complete the puzzle.

analog clock

capacity

gram

kilogram

liter

mass

milliliter

time interval

						1			2		
3											4
		5									
	6										
				7							
	8										

ACROSS

3. a smaller metric unit of capacity than the liter
6. the amount a container can hold
7. one metric unit of capacity which is equal to 1,000 milliliters
8. one metric unit of mass which is equal to 1,000 grams

DOWN

1. the amount of time that passes from the start of an activity to the end of an activity
2. a metric unit for measuring mass, smaller than the kilogram
4. a clock that has an hour hand and a minute hand
5. the amount of matter, or material in an object

Concept Check

Circle the better unit to measure each capacity.

9.



milliliter

liter

10.

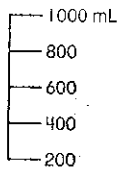


milliliter

liter

How much water is in each container? Circle the answer.

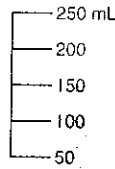
11.



550 mL

800 mL

12.



100 mL

150 mL

Circle the better unit to measure each mass.

13.



gram

kilogram

14.

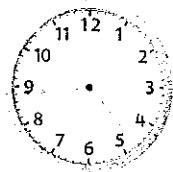
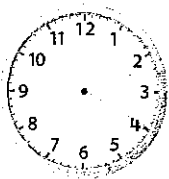


gram

kilogram

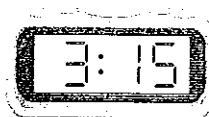
The following are times of after-school activities. Find the time interval for each.

15. Start Time (P.M.) End Time (P.M.)



minutes

16. Start Time (P.M.) End Time (P.M.)



minutes

Name



Problem Solving

20, 9/1/20

- 17.** Mrs. Nathaniel bought 3 bottles of ice tea. Each bottle contains 500 milliliters of tea. How many milliliters of tea are there in 3 bottles altogether? Explain.
- 18.** Algebra Ronaldo measured the mass of his soccer cleat to be 28 grams. The mass of his soccer ball is 450 grams. What is the mass of the soccer ball and soccer cleat together? Write an equation with a letter for the unknown. Then solve.
- 19.** Circle the better estimate for the mass of this shark. Explain your choice.



80 grams

800 kilograms

20, 9/1/20

- 20.** Chia starts school at 8:30 A.M. It takes her 30 minutes to get dressed and 15 minutes to eat. Her walk to school is 5 minutes long. What is the latest time she can wake up and still be to school on time?
- (A) 7:30 A.M. (C) 7:50 A.M.
(B) 7:40 A.M. (D) 8:00 A.M.

Name _____

Am I Ready?



← Go online to take the Readiness Quiz

Write the number represented by the tally marks.

1. |||

2. |||||

3. ||||| |||||

4. Mrs. Breeze surveyed her students to find their favorite pets. The results are shown. How many students voted for hamster?

Favorite Pet	
Pet	Tally
Dog	
Cat	
Hamster	

5. The data shows the activities students enjoy in Physical Education class. How many more students voted for jump rope than kickball?

Jump rope	
Basketball	
Kickball	
Volleyball	

Identify a pattern. Then find the missing numbers.

6. 2, 4, 6, 8, _____

7. 5, 10, 15, 20, _____

8. 10, 20, 30, 40, _____

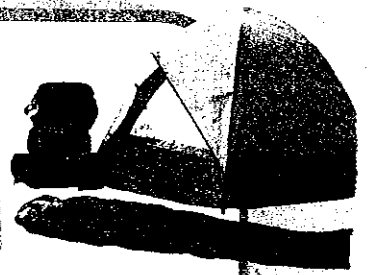
9. 100, 200, 300, _____

Shade the boxes to show the problems you answered correctly.

1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---

Name

MY Math Words




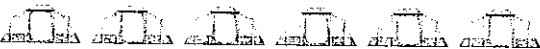

Review Vocabulary

compare symbol

Making Connections

Use one of the review vocabulary words to label the chart below.

Favorite Outdoor Adventures

Bird Watching	
Camping	
Fishing	

Use the information in the chart to compare camping and fishing. Write a description. Then use $>$, $<$, or $=$.

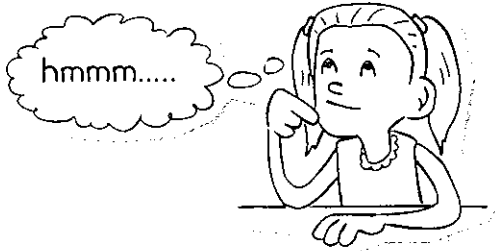
MY Vocabulary Cards



Mathematical PRACTICE

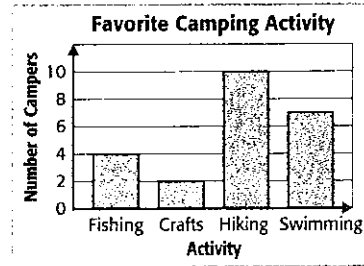
Lesson 12-2

analyze



Lesson 12-3

bar graph



Lesson 12-1

data

Popcorn					
Carrots					
Apples					

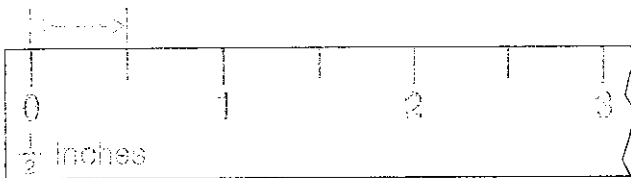
Lesson 12-1

frequency table

Method	Frequency
Bicycle	3
Bus	6
Car	9
Walk	5

Lesson 12-6

half inch ($\frac{1}{2}$)



Lesson 12-2

interpret



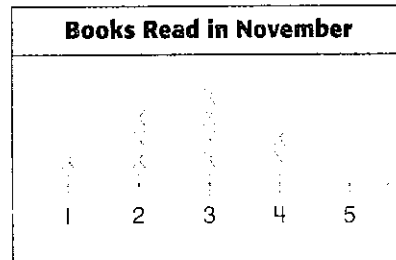
Lesson 12-2

key

Comedy	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Drama	<input type="checkbox"/>
Cartoon	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
key:	<input type="checkbox"/> = 3 people

Lesson 12-5

line plot



Ideas for Use

- During this school year, create a separate stack of cards for key math verbs, such as *analyze* and *interpret*. These verbs will help you in your problem solving.
- Draw or write examples for each card. Be sure your examples are different from what is shown on each card.

A graph that compares data by using bars of different lengths or heights to show the values.

Explain why the bars in the bar graph shown on this card are different heights.

A table that shows the number of times each result occurs.

The root word of *frequency* is *frequent*. Use it in a sentence.

To explain what a graph shows.

Describe an example of when you need to interpret information at school.

A graph that uses its axes a number of times to show how often a data value occurs.

How would you need to adjust the line plot on the front of this card to show that two students read 7 books?

To read and study the data on a graph.

Use the word *analyze* in a sentence. Be sure to use the word in a way that shows its meaning.

Collected information or facts.

How could you collect the data used to make the graph shown on this card?

One of two or more parts of one fact.

Describe when you might want estimate to the half inch.

Tells how many each symbol represents.

Why might a key be used to represent more than one item?

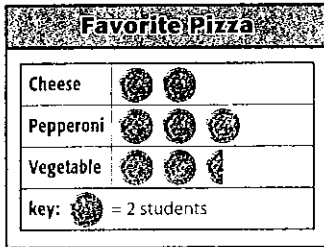
MY Vocabulary Cards



Mathematical
PRACTICE

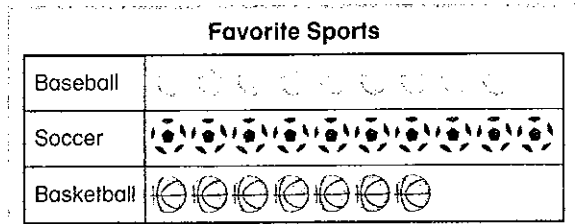
Lesson 12-2

pictograph



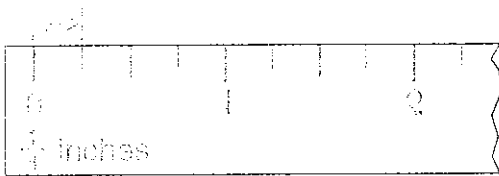
Lesson 12-2

picture graph



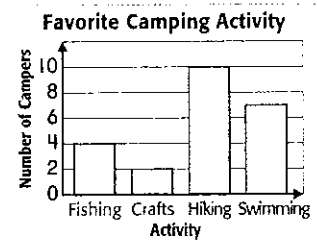
Lesson 12-6

quarter inch ($\frac{1}{4}$)



Lesson 12-3

scale



Lesson 12-1

survey

What Will You Do For Lunch Today?	
Lunch	Tally
Drink	
Buy	
Buy Milk Only	

Lesson 12-1

tally chart

Items Sold at School Store	
Item	Tally
Eraser	
Bottle of glue	
Pencil	
Scissors	

Lesson 12-1

tally mark(s)



Ideas for Use

- Design a crossword puzzle. Use the definitions for the words as the clues.

- Use the blank cards to write a word from a previous chapter that you would like to review.

A graph that uses different pictures to represent each tally.

What could you graph using a picture graph?

A graph that uses the same symbol to represent more than one tally.

Does a pictograph need a scale? Explain.

A set of numbers that represents the data in a graph.

Describe another subject in which you use *scale*.

One of four equal parts of one inch.

Quarter means "one-fourth." How does this relate to a quarter coin?

A chart that uses tally marks to show the results of data collection.

Look at the front of the card. How many total erasers, bottles of glue, pencils, and scissors were sold?

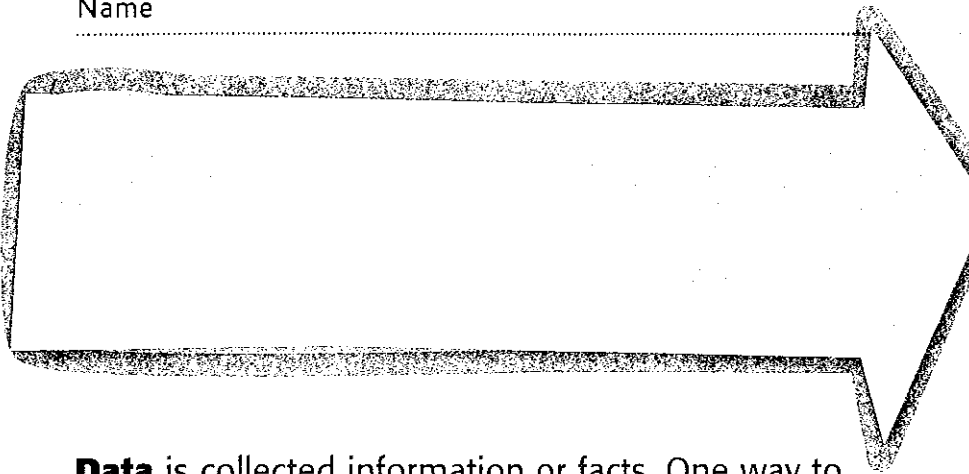
To collect data by asking people the same question.

Write a question for a survey you might take of friends at a party.

A mark made to keep track and display data collected from a survey.

Make tally marks to represent 14 votes.

Name _____



Lesson 1

ESSENTIAL QUESTION

How do we obtain useful information from a set of data?



Data is collected information or facts. One way to collect data is by taking a **survey**, or asking a lot of people a question. A **frequency table** or **tally chart** will help you record the data you collect.



Math in My World



Example 1

Mr. Alvarez surveyed his scout troop. He asked each of his scouts, "What is your favorite camping activity?" The results are shown. Organize the data. Complete the table.

Swimming	Hiking	Fishing
Hunter	Amado	Julian
Eric	Avery	Chen
Ian	Omar	Lamarko
Jamal	Nicolas	
Alano		

One Way Use a tally chart.

Another Way Use a frequency table.

Favorite Camping Activity	
Activity	Tally
Swimming	
Hiking	
Fishing	

Show 5 with tallies.

Each tally mark represents one scout.

Favorite Camping Activity	
Activity	Frequency
	5
Hiking	
Fishing	

Numbers are used to record the results.

Write one sentence about the data that was recorded.

Example 2



Open
WIDE!

Survey your classmates. Record the results.

1 Write a survey question to ask your classmates. An example is shown. Which type of lunch is your favorite?

- A.** grilled cheese **C.** peanut butter and jelly sandwich
B. pizza **D.** spaghetti

2 Create a tally chart or a frequency table to record your results.

3 Ask the question to each of your classmates. Organize the data.

4 Write one sentence that describes your survey results.

Guided Practice



1. The data shows the sports cards most frequently traded in Mrs. Patton's class. Organize the data in a tally chart.

Traded Sports Cards	
Sport	Tally

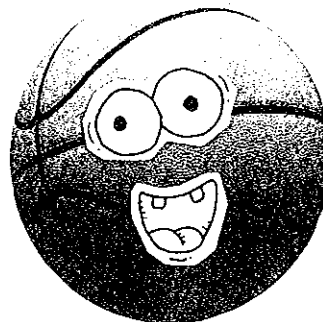
Traded Sports Cards	
Sport	Frequency
Basketball	3
Baseball	6
Football	9
Hockey	5

Talk MATH

What is the difference between a frequency table and a tally chart?

Which is the most popular sports card to trade?

Which is the least popular?



Name

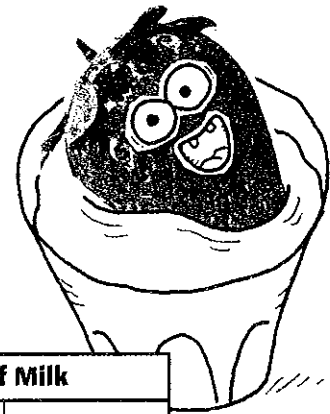
Independent Practice

Organize each set of data in a frequency table.

2. While observing temperatures for one week, Arnaldo recorded the following data.

Weekly Temperatures	
Temperature (°F)	Tally
70-75	
76-80	
81-85	
86-90	

Weekly Temperatures	
Temperature (°F)	Frequency



3. Darla observed her friends. She collected data on the flavor of milk they drank at lunch.

chocolate	strawberry	chocolate
white	white	strawberry
white	chocolate	strawberry
strawberry	white	chocolate
strawberry	strawberry	chocolate

Flavors of Milk	
Flavor	Frequency

Use the tally chart to answer the questions below.

4. Which item was the top seller?
5. Which item sold once?
6. How many items were sold altogether?

School Store Sales	
Item	Tally
Eraser	
Bottle of glue	
Pencil	
Scissors	

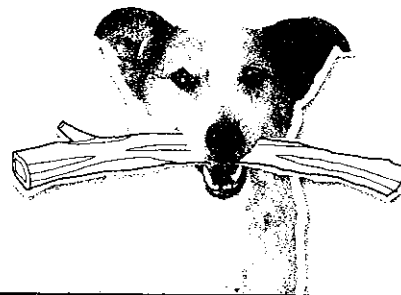


Problem Solving

7. How would you represent the tallies at the right as a number in a frequency table?



8. Elisa took a survey to find what breed of dog her classmates have. The results are shown. Record the data in the tally chart.



Dog Breeds	
beagle	beagle
golden retriever	beagle
golden retriever	golden retriever
poodle	beagle

Dog Breeds	
Dog	Tally

How many classmates responded to Elisa's survey? Explain.

How many more golden retrievers than poodles are owned by Elisa's classmates?

HOT Problems

9. **Mathematical PRACTICE** Use Math Tools

Experiment with tossing a quarter, a nickel, dime, and penny 25 times each. Use the tally chart to record the number of times each coin lands heads up and tails up.

Experiment		
COIN	HEADS UP	TAILS UP

10. **?** *Orbiting on the Outside of a Planet* What information can a tally chart and frequency table give you?

MY Homework

Lesson 1

Collect and Record Data

Homework Helper



Need help? connectED.mcgraw-hill.com

While Ryan waited for the bus, he recorded the colors of the cars that went by in a tally chart. Write one sentence that describes the data.

Colors of Cars	
Color	Tally
Red	
Tan	
White	
Blue	

Ryan saw tan cars more than any other color car.

Practice

1. Alyssa records the results of her survey in the tally chart. Organize this data in the frequency table.

Favorite Day of School Week	
Day	Tally
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Favorite Day of School Week	
Day	Tally

2. Which day of the school week is the least favorite day?

Model Math For Exercises 3–5, refer to the following information. Filippo observed the type of pants his friends wear to school.

3. Organize the set of data in a frequency table.

Pants Worn to School	
Type of Pants	Tally
Jeans	I
Corduroys	
Khaki	II
Athletic	

Pants Worn to School	
Type of Pants	Tally

4. How many more pairs of jeans were worn than corduroys?

5. Which type of pants was worn the most that day?

Vocabulary Check

Match each vocabulary term with its definition.

- 6. survey asking a group of people a question
- 7. frequency table organizes the number of times each result has occurred in a table
- 8. tally chart records the results of data collected using tally marks

Test Practice

9. According to the tally chart, how many students participated in the survey?

- (A) 16 students (C) 18 students
- (B) 17 students (D) 19 students

After School Activities	
Activity	Tally
Piano Practice	
Soccer Practice	
Book Club	

Name _____

Independent Practice

Display each set of data in a pictograph. Write a sentence that interprets the data.

2.

Sport Balls Sold on Saturday	
Type of Ball	Frequency
Football	6
Baseball	4
Basketball	7

Sports Balls Sold on Saturday	
Football	
Baseball	
Basketball	
key: ○ = 2 balls	

3.

Fish Caught on Sunday	
Type of Fish	Frequency
Trout	10
Bass	8
Catfish	17

Fish Caught On Sunday	
Trout	
Bass	
Catfish	
key: 🐟 = 2 fish	

4. A barn had 6 of each animal shown below and 9 pigs.



Barn Animals	
Cow	
Horse	
Pig	
key: A = 3 animals	



Problem Solving



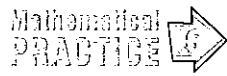
5. A pictograph shows 2 J symbols. Each symbol represents 3 people who enjoy rock music. How many people enjoy rock music?

6. Answer the questions about the pictograph. What is the most common shoe size?

Third-Grade Shoe Sizes

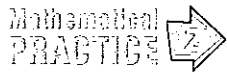
size 2	
size 4	
size 6	
size 8	
key:	= 4 students

How many more students wear a size 4 shoe size than wear a size 8 shoe size?



Explain to a Friend How many students were asked for their shoe size? Explain.

HOT Problems



7. **Use Symbols** Ask 10 people which of the three states they would most like to visit. Record the data in a frequency table and display it in a pictograph.

States to Visit	
States: _____	
New York	
California	
Florida	

States to Visit

New York	
California	
Florida	
key:	= 2 people

8. **Thinking** In the 5th and 6th questions, What is the difference between a picture graph and a pictograph?

MY Homework

Lesson 2

Draw Scaled Picture Graphs

Homework Helper



Need help? connectED.mcgraw-hill.com

Eighteen people voted for their favorite instrument. The results are shown in the two graphs below. How many people voted for guitar?

A picture graph uses different pictures to represent each vote.

Guitar	
Drums	
Trumpet	

A pictograph, or scaled picture graph, uses the same symbol to represent more than one vote.

Guitar	
Drums	
Trumpet	
key:	= 2 votes

The key tells how many each symbol stands for.

$\text{♩} = 2$, so $2 \times 3 = 6$
6 people voted for guitar.

Practice

1. Display the set of data in a pictograph. Then write a sentence that interprets the data.


Walk	5
Car	8
Bus	12

How I Get to School

Walk	
Car	
Bus	
key:	$\triangle = 2$ students


2. Display the set of data in a pictograph. Write a sentence that interprets the data.


Dulaney Horse Farm	
HORSE	QUANTITY
Appaloosa	16
Mustang	8
Clydesdale	10

Dulaney Horse Farm	
Appaloosa	
Mustang	
Clydesdale	
key:	 = 4 horses



Problem Solving

3. **Mathematical PRACTICE**  **Understand Symbols** A pictograph key shows

3  symbols. Each symbol represents 7 hikers in the mountains. How many hikers are in the mountains altogether?


Vocabulary Check

Choose the correct word(s) to complete each sentence.

picture graph pictograph key analyze interpret

4. To _____, is to read or study the data on a graph.
5. The _____ in the graph tells how many each symbol stands for.
6. A _____ uses the same symbol to represent more than one vote or tally.

Test Yourself

7. A pictograph key shows that each  symbol equals 6 movies. How many symbols equal 18 movies?
- (A) 2 symbols (C) 4 symbols
(B) 3 symbols (D) 5 symbols

Name

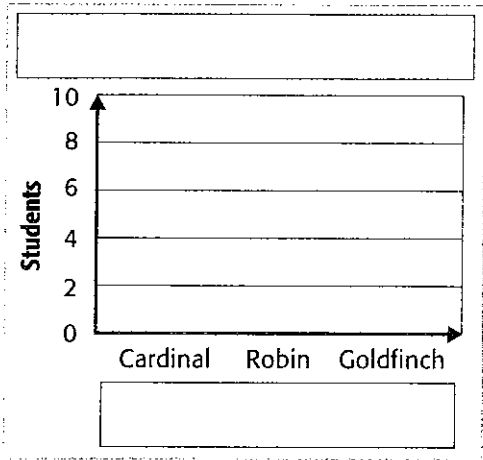


Independent Practice

Display each set of data below in a bar graph.

2.

Favorite Birds to Watch	
Bird	Tally
Cardinal	
Robin	
Goldfinch	

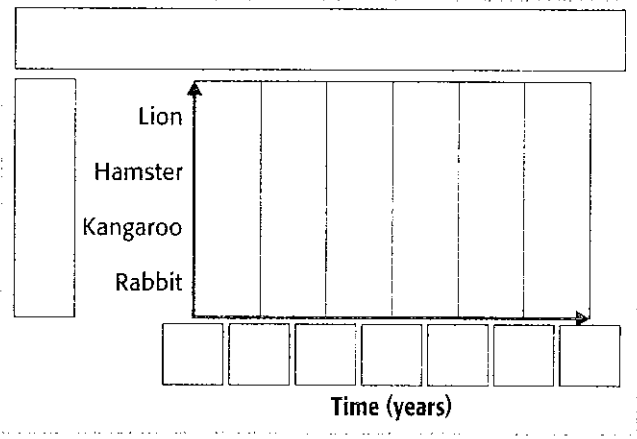


How many students responded to the survey altogether?

How many more students like watching the goldfinch than the robin?

3.

Animal Life Spans	
Animal	Frequency
Lion	10
Hamster	2
Kangaroo	5
Rabbit	7



How many fewer years does the hamster live than the kangaroo?

Which two animals when you subtract their life spans will equal the life span of the hamster?

4. Write one sentence that describes the data in Exercise 3.

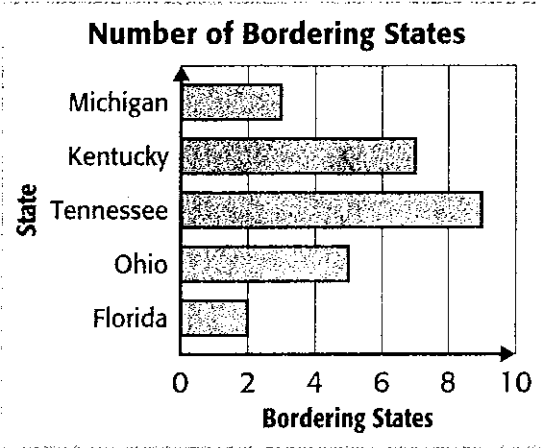


Problem Solving

Mathematical PRACTICE

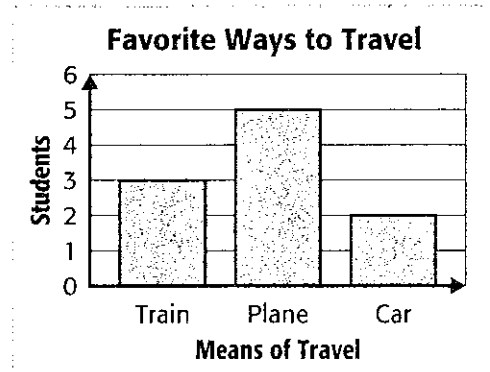
Use Math Tools Use the horizontal bar graph.

- How many more states border Ohio than Michigan? Write a number sentence.
- How many more states border Tennessee than Ohio and Florida combined?



Use the vertical bar graph.

- Write an addition equation to show the total number of students that were surveyed.
- How many more students prefer to travel by plane than by train and car combined?



HOT Problems

Mathematical PRACTICE

Be Precise Explain to a friend the difference between the scales on the bar graphs on this page.

- Hot Tip** In the *Hot Tip* question, What factors help you determine the scale you will use for a bar graph?