

GT June Enrichment

Parents/Guardians,

These ELA & Math resources will enrich and add depth to the thinking of your GT student through the summer because they encourage:

- Multiple pathways for solutions
- Analysis of word relationships and letters within words
- Backwards thinking (What doesn't belong?)
- Analogies
- Logic
- Creativity
- Student choice
- Multi-step problems
- Ranking (requiring analyzation)
- Analyzation of different number combinations to arrive at answers
- Error analysis

Until next time,

Your GT Coach



Check the boxes you plan to complete. They should form a tic-tac-toe across or down. All products are due by: ______.

Poetry Cube



Types of Poems

Cinquain Poem

Line 1-a one-word title (usually two syllables)

Line 2-two words that describe your title (usually four syllables)

Line 3—three verbs or a three-word phase that describes an action relating to your title (usually six syllables)

Line 4-a four-word phrase that describes a feeling related to your title (usually eight syllables)

Line 5—one word that is another word for your title (usually two syllables)

Chadwick Funny Puppy Running, Jumping, Barking Chadwick—A Magnificent Dog Scottie

Diamante Poem

Line 1—a one-word noun

Line 2—two adjectives that describe the noun in Line 1

Line 3—three action verbs relating to noun in Line 1

Line 4—four nouns that both words in Line 1 and Line 7 have in common

Line 5— three action verbs relating to noun in Line 7

Line 6—two adjectives that describes the noun in Line 7

Line 7—one-word noun that is opposite of the noun in Line 1

Sun

Warm, Bright Shines, Heats, Creates Weather, Beach, Children, Outdoors Cools, Waters, Feeds Fresh, Welcome Rain

Haiku Poem

Line 1—a five-syllable line Line 2—a seven-syllable line Line 3—a five-syllable line

> Rain, it softly falls Trees thirst and drink greedily The forest sings out.

Reference Materials

Dictionary Skills You can always find a word in the dictionary by flipping from page to page, but this is not the most efficient manner of finding words. Create a poster showing strategies and examples to quickly find words.	The thesaurus Skills The thesaurus is a great resource for expressive language. Using the thesaurus, create a mobile with the words great, wonderful, and big as the top words. Under each provide at least five other words for each.	Glossary Skills The glossaries of your textbooks have gotten together and formed a complaint committee. They are very unhappy that students do not use them. Create an advertisement for their campaign to encourage students to use them.
Glossary Skills Create a scavenger hunt through one of your books using the glossary as your starting point and ending point. Have students find pages based on your clues. Have fun with its design!	Free Choice (Fill out your proposal form before beginning the free choice!)	Thesaurus Skills Write a letter to a friend telling about the exciting uses for words found in a thesaurus. Be sure and include a few new words in your letter as examples.
Thesaurus Skills Choose a picture from a magazine you would like to describe. Using a thesaurus, write a descriptive paragraph for the picture using all new words as descriptors.	Glossary Skills Create a brochure or pamphlet that shows the structure of a glossary, as well as the benefits to using one.	Dictionary Skills Create a recipe card for the proper use of a dictionary to find words. Be creative!

Check the boxes you plan to complete. They should form a tic-tac-toe across or down. All products are due by: ______.





Daily Word Ladders Grades 4-6 Scholastic Teaching Resources





Daily Word Ladders Grades 4-6 Scholastic Teaching Resources

Review 2: Analogy Relationships

Read the first word pair of the analogy. Write the phrase from the box that tells how the words are related. Then choose the correct word to complete the analogy.

Relationships:	Synor	nyms An	tonyms	Homophones
. role : roll :: scull :			Relationship:	
(A) scroll	^(B) scrawl	© skill	D skull	
.input : output :: libe	ral :		Relationship:	
(A) outcome	^(B) library	© free	D conserva	ative
.rural : urban :: infre	quent :		Relationship:	
(A) rare	[®] often	© suburban	D regular	
. generous : unselfisł	n :: difficult :		Relationship:	
(A) easy	^B selfish	© different	D troublesc	ome
. fidelity : faithfulness	:: clamor :	_	Relationship:	
(A) shout	[®] clamp	© unfaithful	D whisper	
.mall : maul :: raze :			Relationship:	
(A) shop	^B shave	© lower	D raise	
. wood : would :: eye	:		Relationship:	
(A) see	^B aye	© banned	D '	
	e :: vagrant :		Relationship: _	
. conquer : overcome			D vagabon	Ч

Name _____

Reviewing Example and Class

R	Reviewing Example and Class							
Th W	ings can be gro rite two example	ouped or class es from the bo	ed together becau x for each class b	ise they are alike elow.	e in some way.		<u>P</u>	
	spinach dictatorship decade	latitude radius lathe	landscape flannel sonnet	trapezoid fable eggplant	democracy century corduroy	computer isthmus portrait		
1. (Governments -							
2.	Fabrics .							
З.	Machines .							
4. '	Vegetables .							
5.	Time -							
6.	Mathematics							
7.	Literature .							
8.	Painting .							
9.	Geography .							



Name_____

Reviewing Object/Function

Things are often associated with their function. Write two examples from the box under each function below.



	harp elevator wagon	door oven scissors	knife shovel mop	saxophone inline skates spade	helicopter jet window	broom forklift furnace
<u>л</u> т	hings That Cut					
1. 1	nings mat out					
'2 . T	hings That Dig					
3. T	hings That Oper	n				
4. T	hings That Make	e Music				
5. T	hings That Roll					
6. T	hings That Heat	t				
7. T	hings That Fly					
8. T	hings That Lift					
9. T	hinks That Clea	n				



27



Patch-Word Quilt of Preposition Idioms

Integrate the study of idioms into your study of prepositions by creating a large, class-made patch-word quilt bulletin board.



Try This Idea!

You can also use this activity to feature other parts of speech. Look through the glossary on page 55 to find idioms that feature verbs, nouns, adjectives, and so on.

What to Do

- **MATERIALS** copies of the directions (page 46)
 - 9- by 12-inch construction paper (light colors work best)
 - scissors
 - glue sticks
 - colored markers
 - ruler
 - stapler
- **1.** Give each student a copy of the directions and two pieces of construction paper.
- **2.** Ask students to choose a preposition-related idiom. (See the suggested idioms on the next page.) Then, have them follow the direction on page 46 to create a quilt patch.
- **3.** After students have finished their patches, staple them next to one another on a bulletin board, alternating colors, to create a large class quilt.
- 4. Add a banner such as "Patch-Word Prepositions."

20 Hands-On Activities for Learning Idioms © Michael Gravois, Scholastic Teaching Resources

Suggested Idioms

Above

- Head and shoulders above someone
- Keep your head above water

Against

- + Go against the grain
- Play both ends against the middle
- Up against the wall

Away

- + Get away with murder
- When the cat's away, the mice will play

Behind

• Behind the eight ball

• Wet behind the ears

• Power behind the throne

Below

- Below par
- + Hit below the belt

Between

- Between a rock and a hard place
- Read between the lines

By

 By the skin of your teeth

Down

- Bring down the house
- Down the drain
- Down the hatch
- Look down your nose at someone

For

• Go along for the ride

In

- Down in the mouth
- In the driver's seat
- + In hot water

0f

- + Out of sight, out of mind
- + Out in left field
- Out of the clear blue sky
- Out of the frying pan, into the fire
- Out of the mouths of babes
- + Out of the woods

Off

- Off the beaten track
- Off the top of your head
- ♦ Off-the-wall
- Off your rocker

On

- Jump on the bandwagon
- Out on a limb
- Quick (or slow) on the draw

Over

- Over a barrel
- Over the hill
- Over your head

То

Down-to-the-wire

Under

- Get under your skin
- Take someone under your wing
- Water under the bridge

Up

 Up a creek without a paddle

Patch-Word Quilt of Preposition Idioms

Follow the directions below to create a quilt patch that features a preposition idiom of your choice.

Directions for Making the Quilt Patch

 Cut a 3-inch strip off two pieces of construction paper, as shown, leaving two 9-inch squares. Then cut one inch off two sides of one square, leaving an 8-inch square.



2. Fold the 8-inch square in half diagonally. Then fold it in half again. Unfold the last fold, so the square is still folded in half.





3. Carefully cut along the fold line toward the outside corner. Stop cutting one inch before reaching the corner.



4. Unfold the square and refold along the cut you just made. Repeat step 3, cutting along the remaining fold. Unfold the square. (The cuts form an X in the middle of the square.)





 Fold the four triangular flaps back and forth. Cut ¹/₂ inch off the points of each flap, leaving a square window.

<u> </u>	

6. Rub a glue stick around the outer edges of the square and glue it in the center of the 9-inch square. The flaps will hide your writing on the construction paper below.



Directions for Writing About the Idiom

- Choose an idiom containing a preposition to highlight on your quilt patch and write the preposition in the center window of the patch. On the tops of three triangular flaps, write the following labels: Idiom, Meaning, Usage. Write your name on the fourth flap.
- **2.** Under the flap labeled Idiom, write the idiom you selected.
- **3.** Under the flap labeled Meaning, write an explanation of the idiom's meaning.
- **4.** Under the flap labeled Usage, use the idiom in a sentence that conveys the idiom's meaning.
- **5.** Under the flap with your name, write a short description of a way in which the idiom could be applied to some aspect of your life.

For Fun

Decorate the outer borders of your quilt patch.





Like Two Peas in a Pod

Many idioms go together "like two peas in a pod" because they have the same basic meanings. Write each idiom from the list below in the square with the idiom that shares its meaning.

- Bite the bullet
- ♦ Butterflies in the stomach
- Chip off the old block
- Don't open a can of worms
- Everything but the kitchen sink
- ♦ Go over with a fine-tooth comb

- If at first you don't succeed, try, try again
- Let the cat out of the bag
- Make hay while the sun shines
- On cloud nine
- Up a creek without a paddle
- Wild-goose chase

1.	Face the music	7.	On top of the world
2.	Needle in a haystack	8.	On pins and needles
3.	From soup to nuts	9.	Rome was not built in a day
4.	In the doghouse	10.	Spill the beans
5.	Leave no stone unturned	11.	Spitting image
6.	Let sleeping dogs lie	12.	Strike while the iron is hot

Date



Birds of a Feather Flock Together

Many idioms flock together "like birds of a feather" because they have the same basic meanings. Write each idiom from the list below in the square with the idiom that shares its meaning.

- Bats in your belfry
- ♦ Go against the grain
- Take a backseat
- + Hit the roof
- Cost an arm and a leg
- Rock the boat

- + Don't count your chickens before they've hatched
- Shoot the breeze
- ♦ Go fly a kite
- Out of the clear blue sky
- In the driver's seat
- That's the way the ball bounces

1.	Blow your stack	7.	Off your rocker
2.	Call the shots	8.	Pay through the nose
3.	Chew the fat	9.	Play second fiddle
4.	Don't put the cart before the horse	10.	Rub the wrong way
5.	Go jump in a lake	11.	That's the way the cookie crumbles
6.	Make waves	12.	Bolt from the blue

Name	Date	
Steps in the first of the set of	at out or the bar of the eight to the first the eight to the first to the eight to the first to	Baccan of the set of a can of the set
Scrambled Idion All of the idioms below have been cut in half. Match each beginning to its proper ending by writing an ending from the box on the correct	be choosers come home come to it eat it too fly right fry an egg hatch make him drink	run deep skin a cat spite your face spoil the broth spoil the child swim throw stones
1. Go		
2. There's more than one way to $_$		
3. Don't count your chickens before	they	
4. Too many cooks		
5. Still waters		
6. Have your cake and		
7 Vou can lead a borse to water bu	it you can't	
9. Straighton up and		
8. Straighten up and		
9. Cross that bridge when you		
10. Sink or		
11. People who live in glass houses s	houldn't	
12. Spare the rod and		

Using a matrix to organize information is a great way to solve certain logic problems. A matrix helps students isolate the information that is helpful in solving the problem and eliminate the information that is no longer needed. Logic problems that have three variables have a very different looking matrix. Without this visual representation, information is difficult to remember and consequently difficult for students to use.

The following is a teacher/students exchange from a fifth-grade classroom where students are solving the first problem in this section of the book.

Teacher: Today we are solving a different kind of logic problem and will use something called a matrix to help us solve it.

Show students the first problem and the matrix and ask them to tell you what they see.

Student: The matrix is like a square with different parts.

Student: There are names across the top of the matrix and different kinds of drinks along the side.

- Student: The squares in the middle are empty.
- **Teacher:** Will someone read the logic problem and then I'll read one clue at a time and we can use the matrix to solve it.

Have a student read the problem out loud and then read the first clue.

- **Student:** What does it mean that Jamie and Sandy are good friends? What does that have to do with which drink they like best?
- **Teacher:** Does anyone think they know how this clue helps us solve the problem?

- **Student:** I think that it means that Jamie and Sandy can't be the people who like skim milk the best because they are friends with that person. So Jessie has to be the person who likes skim milk the best. Jamie and Sandy are good friends with Jessie who likes skim milk the best.
- **Teacher:** Does that make sense to all of you? What can we put in the matrix to help us remember that it's Jessie who likes skim milk the best? We also need to put something in the matrix to help us remember that Sandy and Jamie do not like skim milk the best.
- **Student:** You could put a check where Jessie and skim milk come together and then put an \times in the same row under Sandy and Jamie.
- **Student:** Or you could color in the place to show that Jessie is the skim-milk person and put an \times under Sandy and Jamie.
- **Student:** You also need to show that Jessie can't like any of the other drinks the best. So you'll need to draw ×'s underneath Jessie's name.
- **Teacher:** Why don't I color in the place where it shows that Jessie likes skim milk the best?

Then it will be easy to see that Jessie is the skim-milk person. I'll put ×'s to show that no other person can have skim milk as their favorite drink, and to show that Jessie cannot like any of the other drinks as his favorite. The next clue says, **Sandy likes a beverage that has an odd number of letters.** Take ten seconds to think about this and then whisper what you think to your partner.

Once students have had this time, call on several students to share their ideas.

- **Student:** Spring water and orange juice both have an odd number of letters. There's eleven letters in both of these drinks.
- Teacher: So, what does that mean?
- **Student:** It means that we still don't know which person likes which drink the best.
- **Teacher:** OK. Let's read the next clue. **Jamie does not like fruit juices.** What does this clue tell us?
- **Student:** This means that Jamie can't like orange juice. Orange juice is a fruit juice.

- **Teacher:** So, what do I need to do on the matrix?
- **Student:** You need to put an \times where it shows Jamie and orange juice. Then you can color in where it shows Jamie and spring water. If he doesn't like orange juice the best, then he has to like spring water the best.
- **Teacher:** OK. Now do we know which beverage Sandy likes the best?
- **Student:** When you put an \times under Jamie and orange juice that just leaves Sandy and orange juice. So, Sandy likes orange juice the best. Color in that square.
- **Teacher:** Let's look at the matrix and see if it shows us who likes which beverage the best. You'll need to record your answers so it's easier to see them. Look over the matrix and reread the clues, checking to see that the answers make sense.

The 18 logic problems that follow include matrices for students to use to solve them.



Use the matrices to solve the problems.

- 13. Brian, Henry, Ernest, Chris, and Peter each wrote a different addition problem to challenge their friends. The problems that they wrote were 479 + 1,356=; 4,782 + 999=; 508 + 948=; 1,644 + 777=; and 827 + 699=. Use the clues below to determine which child wrote which problem.
 - Ernest chose his problem because it has a sum that is even and the words *even* and *Ernest* both begin with an *e*.
 - The sum for Chris's problem is less than Ernest's sum.
 - Brian and Henry ate lunch with the boy who had the smallest, odd sum.
 - If you rounded Brian's sum to the nearest thousand it would be 6,000.

	Brian	Henry	Ernest	Chris	Peter
479 + 1,356 =					
4,782 + 999 =					
508 + 948 =					
1,644 + 777 =					
827 + 699 =					

11 10

> 9 8

7

6

5 4

3 2

- **14.** Julie, Kim, J.M., Robbie, Matt, and David collected data and represented it with the bar graph shown. Use the clues to figure out how to label the horizontal axis of this bar graph.
 - Robbie and Julie rolled a six an even amount of times.
 - Matt, David, and Kim were surprised when their friend rolled a six more than anyone else.
 - Kim rolled a six two fewer times than J.M.
 - If you add Matt's rolls of six to J.M's. rolls of six, the sum is 18.
 - If you subtract Robbie's rolls of six from David's rolls of six, the difference is 3.

ed whe	en	$\stackrel{1}{0}$				
		-				
	Julie	Kim	J.M.	Robbie	Matt	David
7						
5						
11						
2						
6						
9						

Use the matrices to solve the problems.

- **15.** Four fifth-graders—Mikhael, Sondrah, Charleen, and Yolanda compared their home telephone numbers. Use the clues to determine which student has which telephone number.
 - Sondrah and Yolanda both have a telephone number whose digits sum to 31.
 - If you subtract the sum of the first three digits of Mikhael's telephone number from the sum of the second four digits of his number, the difference is 17.
 - Sondrah's telephone number has only two even digits.

	Mikhael	Sondrah	Charleen	Yolanda
817-3624				
356-1178				
523-8199				
631-2140				

- **16.** Kevin, Earl, and Marvin each has a pet that can do a special trick. The tricks are that one can stand on only two legs with the other two in the air, one can jump through a hoop, and one can jump over a barrel. The pets' names are Harry, Bozo, and Sport. Use the clues to figure out which boy has which pet and which trick the pet can do.
 - Kevin and Earl walk to the mall with the boy who owns Harry.
 - Bozo's owner has the same number of letters in his name as his pet does.
 - Sport cannot jump.
 - Marvin's pet can jump through things but not over things.

	Kevin	Earl	Marvin	Standing	Jumping hoop	Jumping barrel
Harry						
Bozo						
Sport						
Standing						
Jumping hoop						
Jumping barrel						

Use the matrix to solve the problem.

- 17. Wanda, Rita, Barbara, and Greta each wore a university sweatshirt. The sweatshirt colors that they wore were white, red, blue, and green. The names on the shirts were Washington State University, Rhode Island State University, Brown University, and Georgetown University. No two sweatshirts were the same color or had the same name on it. Use the clues below to figure out who wore which color sweatshirt and which name is on each sweatshirt.
 - No person's shirt had a color or a name with the same letter as the person's name.
 - Rita and Greta are friends with the girl who wore the red Washington State University sweatshirt.
 - Wanda does not like the colors green and white.
 - Rita's green shirt has the fewest number of letters on it.
 - Rita's Brown University sweatshirt is not white.

	Wanda	Rita	Barb	Greta	White	Red	Blue	Green
Washington State								
Rhode Island								
Brown								
Georgetown								
White								
Red								
Blue								
Green								



Use the matrix to solve the problem.

- **18.** During her eight-week summer vacation, Amber traveled to a different city each week. The cities she visited were Seattle, Denver, Kansas City, Omaha, Charlotte, Baltimore, Atlanta, and Washington, D.C. Use the clues to figure out which city she visited each week of her vacation.
 - Amber began her trip by visiting the city which is about 50 miles north of Washington, D.C.
 - Amber did not go to Washington during the second week of vacation. Instead she flew to Georgia.
 - She visited the White House during her fourth week of vacation.
 - On the third week of her vacation, Amber visited the city that is in the same state as Greensboro and Raleigh.
 - Amber visited Omaha after going to Charlotte, but not before spending time in Kansas City.
 - During the seventh week, Amber traveled all the way to the west coast before visiting her Uncle Sydney in Denver.

	1 st	2 nd	3rd	4 th	5 th	6 th	7 th	8 th
Atlanta								
Baltimore								
Charlotte								
Denver								
Kansas City								
Omaha								
Seattle								
Washington, DC								



Logic Using a Venn Diagram

Venn diagrams, developed by Englishman John Venn (1834–1923) are a powerful problem-solving tool allowing students to display attributes or information from two or three different sets. Teachers often use this visual representation when discussing the characters in a piece of literature or when making observations about things in science class. The Venn diagram logic problems that follow provide students with problems where they will have to add and/or subtract to figure out answers. In most cases the Venn diagram provides them with a means of seeing how the information from the problem will look.

The following is a teacher/students exchange from a sixth-grade classroom. This will help you see how to use these problems with your own students.

Teacher: Think of something you can say about this.

Show students the Venn diagram and ask them to describe what they see.

- **Student:** There are two ovals that cross over each other.
- Student: The ovals are empty.
- **Teacher:** Has anyone ever used one of these before, or seen one of these?
- **Student:** We use these to write characteristics of characters in a book. Sometimes two characters have characteristics that are the same and you write those in the middle part.

- **Student:** The middle part means that the information is the same for both of the characters.
- **Teacher:** Has anyone used these in any other classes?
- **Student:** We used them in math class in third grade when we did data collection.
- **Teacher:** So, this diagram has a special name. It's called a Venn diagram. It's actually named after a man named John Venn who used these to solve logic problems. We're going to use them to solve logic problems, too.

Show the first logic problem to the students and ask them to silently read the information that is given to them.

- **Teacher:** Let's label the two ovals to help us organize the information from the problem. Think about what this *(Point to the first oval.)* might have as its label.
- **Student:** You need to write the name of one of the favorite flavors of ice cream on top of each of the ovals.
- **Teacher:** So, this loop will represent the students who like fudge swirl as their favorite flavor of ice cream and this oval will represent the students who like chocolate chip as their favorite flavor.

Add the labels.

Student: It says that 5 children only liked chocolate chip.

- **Teacher:** Where should we write the number *5* to show that this amount of people only liked chocolate chip?
- **Student:** You need to put it inside the loop that says *chocolate chip* in the part that doesn't overlap with the *fudge swirl* loop.
- **Teacher:** How did you know that this would be the best place to put the *5*?
- **Student:** The overlapping part would be for people who couldn't make up their mind, and they said that they liked both chocolate chip and fudge swirl the same.
- **Teacher:** OK. Would someone read the next clue?
- **Student:** 8 children only liked fudge ripple.
- **Teacher:** So, where should we write the number *8*.²
- **Student:** The *8* needs to be inside the other loop in the part that doesn't overlap.
- **Student:** 8 people liked only one kind of ice cream best.
- **Teacher:** Would someone read the next statement?
- **Student:** Some children liked them both the same.
- Teacher: What do we know from this clue?
- **Student:** We know that there needs to be a number in the middle, but we don't know what this number is yet.
- **Teacher:** Let's look at the last clue and see if it helps us figure out how many students will need to go in the center. Would someone read the last clue?

Student: 22 children were surveyed.



Teacher: Talk with your partner and take a minute to figure out how many people will go in the intersection of the two loops.

Give children a minute to do this. After someone has given an answer be sure to ask them how they figured out the answer they shared.

- **Student:** The number *9* has to go in the center.
- Teacher: Did anyone get a different answer?
- **Teacher:** How do you know that *9* is the correct amount?
- **Student:** If you add the 5 and the 8 that equals 13. But the last clue says that a total of 22 students were surveyed. So, I subtracted 13 from 22 and that equals 9. So, 9 students liked both chocolate chip and fudge swirl the same.

The following Venn diagram problems can be used as a "warm-up" before beginning mathematics class or they can be used as independent work or paired work for students.

Logic Using a Venn Diagram

Use the Venn diagrams to display these results and answer the questions.

- **7.** When asked which method of transportation 43 New Yorkers had used when traveling to Washington, D.C., in the last year, the following data was collected.
 - 31 people said that they had traveled by train.
 - 9 people said they had traveled by plane and train.
 - 7 people said they had driven and gone by train.
 - 4 people said they had only traveled by car.
 - A total of 17 people said plane.
 - Only 11 people said automobile.
 - No one said they'd traveled by plane, train, and automobile.



How many people said only train?

How many people said only plane?

```
How many people said only car?
```

Did anyone say plane and auto? _____

- **8.** 200 students responded to a survey about desserts they liked.
 - 20 people said just pie.
 - 11 people said only ice cream.
 - 31 people liked cake, pie, and ice cream equally.
 - 59 people said when given a choice, they'd pick either cake or pie.
 - 110 people liked cake with 8 people saying they like cake only.

How many people said ice cream and pie? _____

How many people said both cake and ice cream?



Logic Using a Venn Diagram

Use the Venn diagrams to display these results and answer the questions.



10. Afterschool students listed different activities that they did. Some students did more than one activity.

- 27 students had a music lesson, some sports activity, as well as religious school during the week.
- 39 students had both religious school and music lessons.
- 37 students had both religious school and some athletic activity.
- 30 more students had an athletic activity and a music lesson as the number of students who had a sport and religious school.
- A total of 84 students mentioned sports.
- A total of 51 students said religious school.
- 106 students responded.



Date

Name

FASHERS

Problem Solving: Working Backwards

Mark and Darcy's Game

Mark and Darcy made their own dartboard, then played a few games. Their dartboard was not designed like a typical board. For one thing, it was not round but rectangular! Here is what it looked like (the numbers inside each square indicate the points a spot is worth). Answer the questions below based on the information found on the dartboard. In some cases, there is more than one correct answer.

15	17	18	20	20	20	18	17	15
17	25	25	27	27	27	25	25	17
18	25	30	33	35	33	30	25	18
20	27	33	37	40	37	33	27	20
20	27	35	40	50 BULL'S EYE	40	35	27	20
20	27	33	37	20	37	33	27	20
18	25	30	33	35	33	30	25	18
17	25	25	27	27	27	25	25	17
15	17	18	20	20	20	18	17	15

- **1.** Darcy landed on a 33 on her first toss. Mark tied her in 2 tosses. On what spots did he land?
- **2.** Mark got a bull's eye. Darcy tied him in 3 tosses. On what spots could she have landed?
- **3.** Darcy got a bull's eye. Mark tied her in 2 tosses. On what spots could he have landed?
- **4.** Darcy had 127 points. Could Mark beat her in 3 tosses, without a bull's eye?
- 5. When Mark wasn't looking, Darcy claimed she got 95 points in 2 tosses. Was she tricking him?
- Mark had 81 points when Darcy tied him in 3 tosses. On what spots could she have landed?

Date

Name

FINISHERS

Logic and Reasoning

Oops, Wrong Number

Below is a list of wrong numbers. For each wrong number, use the clue to determine the number the caller meant to dial.



Wrong number	Clue for correct number	Correct number
1. 914-4258	completely reverse the order	
2. 451-1362	reverse the two sets of numbers whose sum is 9	
3. 654-6922	change every even number to its half	
4. 288-2537	replace odd numbers with the next highest even number	
5. 486-2427	change any number that can be evenly divided in half to a 6	
6. 250-7337	triple every number less than 4	
7. 529-7395	rewrite the numbers in ascending order	
8. 815-6224	subtract the last number from the first number and change any numbers evenly divisible by 2 to product of 2 x 2	
9. 273-1561	reverse the two numbers whose product is 30 and reverse the two numbers whose product is 14	
10. 455-6859	replace certain numbers so you'll end up with a number pattern of plus one, minus two	

YOUR TURN

Make up a phone number as the wrong number, and create a clue for a friend or family member to determine the correct number.

5.NBT.7 Name: Date:
Adding & Subtracting Decimals
Find two numbers that have a sum of 77.95 and a difference of 30.61
and
Work Space:
Explain how you found the two numbers

[5.NBT.7] name: Date: Date:
Find two decimals that have a product of 0.2 and a quotient of 0.8
and
Work Space:
Explain how you found the two numbers
I



Date:

Volume of Rectangular Prisms

Use equations and illustrations to solve each...

Martha packed a box with a volume of 336 cubic inches. If the box is 8 inches wide and 7 inches high, what is the length of the box?

Bobby built a planter with a volume 36 cubic feet. If the planter is 2 feet high and 3 feet in length, what is the width of the planter?

Explain how you found your answers:





Answer Key for Enrichment Resources

The answers are arranged in the same order as they appear in the packet. The highlighted pages are the answers for your grade's enrichment activities.

Word Ladder Answers



Fried Snacks, page 51

french, trench, wrench, wren, renew, newer, fewer, fee, free, fry

Candlelight, page 52 candle, handle, hand, hard, shard, share, hare, fare, flare, flame

Car Trouble, page 53

flat, inflate, late, slate, tales, tiles, tile, time, tide, tire

Play Date, page 54

play, plan, plane, plates, staple, stable, able, amble, ramble, rumble, humble, hum, chum

Beautiful Day, page 55 blue, clue, glue, glee, flee, flea, flew, fly, sly, sky

Ruling the Roost, page 56 rooster, roost, roast, toast, coast, cast, cat, hat, hit, chick, chicken

New and Not-So-New, page 57 new, few, dew, sew, sow, now, how, show, shown, own, owl, old

Midday Meal, page 58 lunch, launch, laundry, dry, day, say, sap, sip, sipper, supper

Growing Up, page 59 short, shore, shoe, show, slow, plow, blow, below, belong, long

Wedding Words, page 60 bride, stride, ride, rid, rod, rode, road, roam, room, groom

Friendship, page 61 friend, end, send, sent, set, bet, but, cut, cute, chute, chum Rub-a-Dub-Dub, page 62

scrub, rub, rib, crib, cob, rob, throb, broth, both, bath

Underwater, page 63

dive, dime, chime, chimp, champ, ham, hum, hub, cub, Cuba, scuba

Hear This, page 64

scream, cream, cram, cramp, ramp, ram, rat, rot, trot, trout, shout

Brainy Bird, page 65

eagle, beagle, bagel, bugle, bungle, bundle, candle, handle, hand, Hank, hack, hawk

Itchy and Scratchy, page 66

itch, inch, pinch, punch, lunch, hunch, hutch, hitch, pitch, patch, catch, scratch

Drinking Vessels, page 67 glass, lass, last, least, yeast, year, bear, beep, jeep, jump, slump, pump, cup

Good Books, page 68

story, store, ore, chore, core, bore, bone, boo, book

Land of the Free, page 69

liberty, tribe, bride, pride, ride, rid, red, read, reed, freed, freedom

Corny!, page 70 maize, maze, made, jade, jab, job, cob, con, coin, corn

School Days, page 71 school, cool, coal, cola, cold, scold, sold, hold, hole, home

Jobs for Grownups, page 72 teacher, teach, each, ache, acre, care, pare, parent

Ship Shape, page 73

navy, naval, novel, shovel, shove, shave, shape, share, shame, ham, him, hip, ship

Suppertime, page 74 supper, super, sugar, rag, drag, drug, dug, dig, din, diner, dinner

Just a Spoonful, page 75 sweet, sweat, seat, heat, hut, gut, tug, chug, hug, rug, shrug, sugar

Flower Power, page 76

petal, pedal, penal, panel, pane, pave, shave, shove, show, how, low, flow, flower

24 Hours, page 77

night, might, right, bright, big, jig, jag, jay, day

Horse Sense, page 78 colt, cost, host, most, mast, mart, mare, more, Morse, horse

Voting Booth, page 79 ballot, ball, ballet, let, lot, tot, tote, note, vote

Sailing, page 80 sail, snail, ail, aim, claim, clam, calm, palm, pal, pat, cat, coat, boat

Bunny Tales, page 81 rabbit, bit, bat, fat, far, car, scar, scare, care, hare

Good Hare Day, page 82 hare, share, sharp, harp, carp, card, bard, bare, bar, bat, but, bun, bunny

Very Fishy, page 83 minnow, window, wind, win, wine, whine, shine, shrine, shrimp

Beasts of Burden, page 84

horse, shore, chore, core, more, mere, mare, care, came, camel

Apple for Teacher, page 85 faculty, faulty, fault, felt, fell, tell, tall, tam, team, teach

Art Smart, page 86 art, part, park, pack, tack, talk, tall, mall, all, alley, galley, gallery

Uphill, page 87 mountain, mount, mound, found, hound, hind, hint, hunt, hull, hill

Globe Guessing, page 88 south, mouth, out, shout, pout, pot, port, pore, pole

Fish Wish, page 89 sturgeon, surgeon, surge, splurge, purge, purse, pure, cure, core, fire, fir, fit, fish

From the Ground Up, page 90

reconstruct, construct, instruct, destruct, distract, distrust, trust, brush, bush, bud, build, rebuild

Strength Training, page 91 weak, week, weed, reed, read, road, roach, coach, couch, touch, tough

Getting the Message, page 92 message, massage, mass, miss, mist, wrist, west, nest, net, not, note

Medal Winners, page 93 gold, golf, gulf, gull, pull, hull, heel, her, herb, verb, silver

Fading Light, page 94 light, right, sight, sigh, sign, sick, sack, pack, park, dark

Answers

	page 8	3 1.	rambled 2. scarce 3. thunderous
		4.	peculiar 5. dilapidated 6. abandon
		7.	reluctantly 8. bounding
	page 9	9 1.	B, 2. C, 3. B, 4. D, 5. A, 6. B, 7. D, 8. C
	page '	10 1.	A, 2. C, 3. D, 4. B, 5. C, 6. A, 7. C, 8. B
	page '	11 1.	B, 2. B, 3. C, 4. A, 5. D, 6. B, 7. A, 8. C
	page 1	12 1.	clear 2. irrigated 3. increased 4. contentment
		5.	excited 6. gorgeous 7. capture 8. located
	page '	<mark>13</mark> 1.	B, 2. A, 3. D, 4. C, 5. A, 6. B, 7. A, 8. D
	page 1	 4 1.	C, 2. B, 3. B, 4. D, 5. C, 6. D, 7. D, 8. C
	page 1	15 1.	A, 2. B, 3. D, 4. C, 5. C, 6. A, 7. B, 8. D
	page 1	I6 1.	antonyms; C 2. synonyms; D 3. antonyms; B
		4.	synonyms; D 5. synonyms; B 6. antonyms; A
		7.	antonyms; B 8. synonyms; C
	page 1	17 1.	strait 2. pier 3. mast 4. cruise 5. trussed
		6.	stationary 7. borough 8. cash
	page 1	18 1.	B, 2 .C, 3. A, 4. D, 5 .C, 6. B, 7. D, 8. C
	page 1	19 1.	C, 2. A, 3. B, 4. B, 5. C, 6. C, 7. B, 8. D
	page 2	20 1.	A, 2. B, 3. D, 4. B, 5. C, 6. C, 7. A, 8. D
	page 2	21 1.	homophones D 2. antonyms; D 3. antonyms;
ton	nohone	SB.	4. synonyms; D 5. synonyms; A 6. nomo-
101.	- of man	pr	iones; D 7. nomophones; B 8. synonyms; D
	page 4	2 1.	actatorship; democracy 2. harmer; corduroy
F	ample	Э.	computer, lattre 4. spinach, egyplant
-	and	о.	century, decade o. trapezoid, radius
		7	fable: connet 8 landecape: portrait
a	ass	7.	fable; sonnet 8. landscape; portrait
C	ass nage	7. 9. 23 1	fable; sonnet 8. landscape; portrait latitude; isthmus
C	page 2	7. 9. 23 1. 24 1.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2, A, 3, B, 4, D, 5, B, 6, D, 7, C, 8, A C, 2, A, 3, B, 4, D, 5, B, 6, A, 7, D, 8, C
C	page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B
C	page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones: C 2. synonyms: B
C	page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1. 3.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C
C	page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1. 3. 5.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A
C	page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1. 3. 5. 7.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B
C	page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 3. 5. 7. 27 1.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade
C	page 2 page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 3. 5. 7. 7. 27 1. 3.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone
d	page 2 page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 25 1. 3. 5. 7. 27 1. 3. 5. 5.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone inline skates; wagon 6. oven; furnace
ci bj	page 2 page 2 page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 3. 5. 7. 27 1. 3. 5. 7. 7.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone inline skates; wagon 6. oven; furnace helicopter; jet 8. elevator; forklift
C) FW	page 2 page 2 page 2 page 2 page 2 page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1. 3. 5. 7. 27 1. 3. 5. 7. 9.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone inline skates; wagon 6. oven; furnace helicopter; jet 8. elevator; forklift broom; mop
C) FW	page 2 page 2 page 2 page 2 page 2 page 2 page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1. 3. 5. 7. 27 1. 3. 5. 7. 9. 28 1.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone inline skates; wagon 6. oven; furnace helicopter; jet 8. elevator; forklift broom; mop D, 2. A, 3. C, 4. A, 5. D, 6. B, 7. C, 8. B
C) FW	page 2 page 2 page 2 page 2 page 2 page 2 page 2 page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1. 3. 5. 7. 3. 5. 7. 9. 28 1. 29 1.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone inline skates; wagon 6. oven; furnace helicopter; jet 8. elevator; forklift broom; mop D, 2. A, 3. C, 4. A, 5. D, 6. B, 7. C, 8. B A, 2. D, 3. C, 4. B, 5. C, 6. A, 7. B, 8. C
C) FW	page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1. 3. 5. 7. 7. 9. 27 1. 3. 5. 7. 9. 28 1. 29 1. 30 1.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone inline skates; wagon 6. oven; furnace helicopter; jet 8. elevator; forklift broom; mop D, 2. A, 3. C, 4. A, 5. D, 6. B, 7. C, 8. B A, 2. D, 3. C, 4. B, 5. C, 6. A, 7. B, 8. C B, 2. D, 3. C, 4. B, 5. C, 6. D, 7. B, 8. A
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Dist	page 2 page 2	7. 9. 23 1. 24 1. 25 1. 26 1. 3. 5. 7. 27 1. 3. 5. 7. 9. 28 1. 29 1. 30 1. 31 1. 3.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone inline skates; wagon 6. oven; furnace helicopter; jet 8. elevator; forklift broom; mop D, 2. A, 3. C, 4. A, 5. D, 6. B, 7. C, 8. B A, 2. D, 3. C, 4. B, 5. C, 6. A, 7. B, 8. C B, 2. D, 3. C, 4. B, 5. C, 6. D, 7. B, 8. A object/function; D 2. antonyms; B example and class; C 4. homophones; B
Di	page 2 page 2	7. 9. 23 1. 24 1. 25 1. 3. 5. 7. 7. 3. 5. 7. 9. 28 1. 29 1. 30 1. 31 1. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	fable; sonnet 8. landscape; portrait latitude; isthmus C, 2. A, 3. B, 4. D, 5. B, 6. D, 7. C, 8. A C, 2. A, 3. B, 4. D, 5. B, 6. A, 7. D, 8. C B, 2. A, 3. C, 4. D, 5. B, 6. A, 7. D, 8. B homophones; C 2. synonyms; B example and class; D 4. antonyms; C antonyms; A 6. synonyms; A example and class; D 8. synonyms; B knife; scissors 2. shovel; spade door; window 4. harp; saxophone inline skates; wagon 6. oven; furnace helicopter; jet 8. elevator; forklift broom; mop D, 2. A, 3. C, 4. A, 5. D, 6. B, 7. C, 8. B A, 2. D, 3. C, 4. B, 5. C, 6. A, 7. B, 8. C B, 2. D, 3. C, 4. B, 5. C, 6. D, 7. B, 8. A object/function; D 2. antonyms; A
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תה הבהווו ההוווותה והערווות אמרווות החו



Glossary for Patch-Word Quilt of Preposition Idioms

The following is an alphabetical list of all the idioms mentioned in this book. Many of the meanings come from the *Scholastic Dictionary of Idioms* by Marvin Terban (Scholastic, 1996), which features over six hundred idioms, their meanings, and their origins.

A

- **Add fuel to the fire** to make a bad situation worse; to do or say something that causes more trouble, makes someone angrier
- **Air your dirty laundry in public** to talk about your private disagreements or embarrassing matters in public, usually while quarreling
- **Albatross around your neck** a very difficult burden that you can't get rid of or a reminder of something you did that was wrong
- **All ears** eager to listen; sharply attentive; curious
- **All thumbs** awkward and clumsy, especially with the hands
- **Ants in your pants** extreme restlessness; overactivity
- **Apple of your eye** a person or thing that is greatly loved, treasured, and adored
- **As the crow flies** by the shortest and most direct route; measured in a straight, direct line between two places
- **Asleep at the switch** not attending to one's job or failing to react quickly; not being alert
- At the end of your rope at the limit of your ability, endurance, or patience to do something

B

- **Babe in the woods** a person who is inexperienced; a naive, trusting person
- **Back to square one** return to the beginning because of a failure to accomplish the desired result
- **Backseat driver** a bossy person who tells another person what to do; a person who gives unwanted advice and directions

- **Bark is worse than your bite** the way a person sounds is much more frightening than the way she or he acts; the threat is often worse than the action taken
- **Barking up the wrong tree** to direct your attention or efforts toward the wrong person or thing; to have the wrong idea about something
- **Bats in your belfry** a person who has crazy ideas or acts irrationally
- **Beat a dead horse** to pursue a useless goal; to continue fighting a battle which has been lost; to keep arguing a point which has already been decided
- **Beauty is in the eye of the beholder** there is no standard for beauty, so what one person likes or sees in someone or something is not necessarily what others see; different people have different opinions
- **Bee in your bonnet** a crazy idea; an obsession with an idea
- **Beggars can't be choosers** needy people have to take whatever they can get and cannot be concerned about the quality if they cannot afford to buy it for themselves
- **Behind the eight ball** in trouble or out of luck; in a difficult position or in a bad situation with little hope of winning
- Below par unsatisfactory; below expectations
- Better half either partner in marriage
- **Between a rock and a hard place** being in a very tight spot and faced with a difficult decision
- **Bird in the hand is worth two in the bush** what you already have is better than what you might or might not get in the future; a guarantee is worth more than a promise



- **Birds of a feather flock together** people who have things in common, such as interests and ideas, usually hang out together; people who are alike often become friends
- **Bite off more than you can chew** to take on a task that is more than you can accomplish; to be greedy, overconfident, or too ambitious by taking on more jobs or responsibilities than you can deal with at one time
- **Bite the bullet** prepare for an unpleasant experience; brace yourself to endure with courage something painful but necessary
- **Bite the dust** to die; to fall in defeat; to fail to succeed
- **Bite the hand that feeds you** to turn against someone who helps you; to do harm to someone who does good things for you
- **Black sheep of the family** the most unsuccessful, least admirable member of a family or similar group; a disgraced person
- **Bleeding heart** an extremely softhearted person who feels compassion or pity towards all people, including those who may not deserve sympathy
- **Blood is thicker than water** one can expect more kindness from a family member than from a stranger; a person will do more for a relative than for anyone else
- Blow your stack see Hit the roof
- **Blue blood** of high or noble birth; an aristocrat; from the upper class of society
- **Bolt from the blue** something sudden, unexpected, and shocking
- **Born with a silver spoon in your mouth** born to wealth, comfort, and privilege
- **Bowl of cherries** a wonderful, pleasant situation or position; an easy, comfortable life
- **Bring down the house** to get an audience to clap enthusiastically or laugh loudly
- **Bug off** to leave someone alone; go away; stop annoying someone
- **Bull in a china shop** a clumsy person who deals too roughly with a delicate situation; a rough person who is near breakable things; a tactless person who says or does something that angers people or upsets their plans

- **Burn the candle at both ends** to overwork yourself mentally or physically and until you're exhausted
- **Burn the midnight oil** to stay up very late at night studying or working
- **Burn your bridges behind you** to make a decision you cannot change; to commit oneself to a course of action
- **Burn yourself out** to exhaust yourself by overworking physically or mentally
- **Bury your head in the sand** to ignore danger by pretending you don't see it; to hide from obvious signs of danger
- **Busy as a beaver** working very hard; extremely industrious
- Busy as a bee see Busy as a beaver
- **Butter someone up** to flatter someone; to try to get a favor by praising someone
- **Butterflies in the stomach** a fluttery feeling in the stomach, usually caused by nervousness
- **Button your lip** to stop talking; be quiet
- **Buy a pig in a poke** to buy something without seeing or examining it
- **By the skin of your teeth** by an extremely narrow margin; with practically no room to spare; just barely

С

- **Call it a day** to stop work for the day; to bring a project to an end for the time being
- **Call the shots** to make the decisions; to be in charge; to give orders
- **Can't see the forest for the trees** to overlook the overall situation because of a focus on small details; to be so involved in details that you miss the whole picture
- **Cast the first stone** to be the first to attack, blame, or criticize someone; to lead accusers against a wrongdoer
- **Cat got your tongue?** Is there a reason that you're not speaking?
- **Catch someone red-handed** to catch someone in the act of doing something wrong
- **Chew the fat** to have a friendly, informal talk; to chat in a relaxed way



- **Chew up the scenery** to overact; to exaggerate your emotions
- **Chicken feed** a very small or insignificant amount of money
- **Chickens come home to roost** words or actions come back to haunt a person; evil acts will return to plague the doer
- **Chip off the old block** a child who resembles a parent in behavior, looks, or abilities
- **Clean as a hound's tooth** completely free from dirt; perfectly neat (also *Clean as a whistle*)
- **Climb the walls** to be frustrated or anxious during a challenging situation; to be unable to endure
- **Cold turkey** the sudden stopping of any habit
- **Come up smelling like a rose** to get out of a possibly embarrassing or disgraceful situation without hurting your reputation, and maybe even improving it
- **Cook your goose** to put an end to; to ruin someone's plans
- **Cool as a cucumber** very calm; not nervous or emotional
- **Cost an arm and a leg** very expensive; highpriced, though possibly not worth the cost
- Crocodile tears fake tears; false grief
- **Cross that bridge when you come to it** don't predict problems until they actually happen; don't worry about future events now; don't deal with a difficulty until you have to
- **Cut off your nose to spite your face** to injure yourself out of anger toward another; to make a situation worse for yourself when angry with someone

D

- **Dark-horse candidate** a contestant about whom little is known and who wins unexpectedly
- **Dead as a dodo** totally dead or hopeless; without a chance of success (also *Dead as a doornail*)
- **Dead duck** a person who is ruined; a person or project unlikely to continue or survive
- **Dog days of summer** the hottest and most humid days of summer, usually much of July and August

- **Dog-eat-dog world** a way of life marked by fierce competition in which people compete ruthlessly for survival or success
- **Dog's life** a bleak, harsh, terrible existence without much happiness or freedom
- **Don't count your chickens before they hatch** don't count on profits before you earn them or have them in hand
- **Don't look a gift horse in the mouth** don't complain if a gift is not perfect; take what you've been given without criticism or emphasis on its worth
- **Down in the mouth** sad and depressed (also *Down in the dumps*)
- Down the drain lost forever; wasted
- **Down the hatch** swallow a drink in one gulp
- **Down-to-the-wire** running out of time; at the very last minute
- **Dressed to the nines** wearing fashionable clothing; dressed to attract attention
- **Drive you up the wall** to make someone angry or confused; to make somebody very annoyed or frustrated
- **Drop you like a hot potato** to get rid of something or somebody as quickly as possible

E

- **Eager beaver** see *Busy as a beaver*
- **Early bird catches the worm** a person who gets up early and starts a project ahead of others has the best chance of accomplishing his or her goal
- **Eat crow** to be forced to do something very disagreeable; to acknowledge a mistake or defeat
- **Eat your heart out** to feel extremely unhappy about a hopeless situation; to make yourself sick with grief and worry
- **Eat your words** to have to take back what you said; to admit humbly that you were wrong
- **Elbow grease** hard, energetic manual labor
- **Eleventh hour** at the latest possible time, just before the absolute deadline
- **Every cloud has a silver lining** there is something good in every bad situation



- **Everything but the kitchen sink** practically everything there is; every possible object whether needed or not
- **Eye for an eye and a tooth for a tooth** revenge or punishment exactly like the original crime or offense
- **Eyes in the back of your head** ability to sense what is happening outside one's field of vision; ability to know what happens when one's back is turned

F

- **Face the music** to endure the consequences of one's actions; to take what you have coming to you
- **Fat cat** a wealthy person; a rich benefactor
- **Feel your oats** to be in high spirits, energetic; to act in a proud way
- **Field day** to have unlimited opportunities; to have it all your own way; to go all out and experience success at something
- Fifth wheel an unneeded, extra person
- **Fish or cut bait** do one thing or another, but stop delaying; make a choice; act now or give someone else a turn
- **Fish out of water** a person who is out of his or her usual place; someone who doesn't fit in or is helpless in a situation
- **Fly by the seat of your pants** to do something by instinct and feel without any earlier experience or instruction
- **Fly in the ointment** a small annoyance that spoils an otherwise pleasant situation
- **Foam at the mouth** to be uncontrollably furious, like a mad dog
- **Follow your nose** to go straight ahead in the same direction
- For the birds worthless; useless; stupid
- Forty winks a short nap
- **Four corners of the Earth** from all over the planet; all parts of a place
- **From soup to nuts** the whole thing from beginning to end

- **Full of beans** lively, happy and energetic, high-spirited
- **Full of hot air** being foolish and talking nonsense; pompous; vain

G

Get a kick out of something to enjoy doing something; to get a thrill out of something

- Get the pink slip to be fired
- Get under your skin to bother or upset someone
- **Get your goat** to annoy very badly; to make a person angry
- Get your walking papers to be fired
- **Give me five** to slap a person's hand as a hearty greeting or a sign of solid agreement
- **Give your eyeteeth for something** to want something very badly; to be willing to give up something valuable to get something else
- **Go against the grain** to oppose natural tendencies; to oppose a person's wishes or feelings; to cause anger
- **Go along for the ride** to watch but not take part in an activity; to keep someone company
- Go bananas to be or go crazy
- Go climb a tree go away; leave; stop bothering me
- Go fly a kite see Go climb a tree
- Go fry an egg see Go climb a tree
- Go jump in a lake see Go climb a tree
- Go over like a lead balloon to fail miserably
- **Go over with a fine-tooth comb** to search with great care or attention
- **Go to the dogs** to decline in looks or health; to be ruined or destroyed; to ruin oneself
- Go yellow to act cowardly
- **Gone to pot** become ruined; to get worse and worse
- **Goody-two-shoes** a person who thinks he or she is perfect and tries to be
- **Green thumb** having a special talent for making flowers and green plants grow well
- Green with envy extremely jealous



H

- **Hand-to-mouth existence** to spend your salary as fast as it's earned without saving any for the future
- **Hard nut to crack** a problem that's very difficult to understand or solve; a difficult person
- **Have other fish to fry** to have other things to do; to not bother with one thing because you have more important things to accomplish
- **Have your cake and eat it too** to spend or use something up but still have it; to have two things when you must choose one
- **Have your heart in your mouth** to be extremely frightened about something
- **Head and shoulders above someone** far superior; much better than
- **Head in the clouds** absent-minded; daydreaming; lost in thought
- **Heart's in the right place** to be well-meaning and kindhearted; to have good intentions even though mistakes occur
- **High horse** acting superior and arrogant as if you were better than other people
- **Hit below the belt** to use unfair tactics or be unsportsmanlike
- **Hit the books** study school assignments carefully; prepare for classes by reading and doing homework
- **Hit the road** to begin a journey, to leave
- **Hit the roof** to lose your temper suddenly; to become violently angry
- **Hit the spot** to fully satisfy and refresh, especially with food or drink
- **Hold your horses** slow down; wait a minute; be patient
- **Hold your tongue** struggle not to say something you want to say
- **Horse of a different color** a different matter altogether; something from a different nature from that being noticed

Hot under the collar very angry; upset

- **If at first you don't succeed, try, try again** don't give up; if you make a mistake you should keep working at it until you are successful
- If the shoe fits, wear it If a remark applies to you, you should admit that it is true.
- In a pickle see Behind the eight ball
- **In hot water** in serious trouble or in an embarrassing situation with someone of authority
- **In the doghouse** in disgrace or dislike; facing punishment
- **In the driver's seat** in control; in the position of authority
- **In the pink** in excellent health physically and emotionally
- **It takes two to tango** two people are required to accomplish this deed

J

- Jump down your throat to talk or scream at someone in a sudden, angry way
- **Jump on the bandwagon** to become part of the newest activity because many other people are

K

- **Keep something under your hat** to keep something secret
- **Keep your ear to the ground** to pay attention and be well-informed
- **Keep your fingers crossed** to wish for good luck and success for someone or something
- **Keep your head above water** to earn enough to stay out of debt and avoid financial ruin; to do just enough to keep up with all of one's responsibilities
- **Keep your nose to the grindstone** to force oneself to work hard all the time; to always keep busy
- **Kill the goose that lays the golden eggs** to spoil or destroy something good out of stupidity, greed, or impatience
- **Kill two birds with one stone** to do two things by one action; to get two results with just one effort
- **Knee-high to a grasshopper** very young and, therefore, very short



I.

- **Laugh out of the other side of your mouth** to be made to feel sorrow, annoyance, or disappointment after you felt happy; to cry at a change in luck after experiencing some happiness
- Lay an egg to give an embarrassing performance
- **Leave no stone unturned** to make all possible efforts to carry out a task or search for someone or something
- Lend an ear to listen and pay attention to
- **Let sleeping dogs lie** to not make trouble if you don't have to; to not make someone angry by stirring up trouble
- Let the cat out of the bag to give away a secret
- **Like two peas in a pod** identical; alike in looks and behavior
- **Little pitchers have big ears** little children, listening to the conversations of older people, often hear and understand a lot more than people give them credit for
- **Live high off the hog** to live in a rich style and own lots of expensive things
- **Lock the barn door after the horse is out** to take careful precautions to do the right thing after it is too late
- Long in the tooth old; aged
- **Look down your nose at someone** to think of and treat people as if they were lower in quality or ability
- **Look what the cat dragged in** a person who looks disheveled; the arrival of an unwanted person

M

- **Mad as a wet hen** very upset; extremely angry; ready to fight
- **Make a mountain out of a molehill** to turn a small, unimportant issue into a big, important one; to exaggerate the importance of something
- **Make a silk purse out of a sow's ear** to create something valuable or beautiful out of something practically worthless or ugly
- **Make hay while the sun shines** to make the best of a limited opportunity

- **Make it by a nose** to succeed at the very last moment
- **Make waves** to cause trouble; to upset matters; to create a disturbance
- **Make your mouth water** to look so attractive and desirable that it makes you want to have it very much; to want to eat or drink something that looks or smells delicious
- **Monkey business** silliness or fooling around; dishonest or illegal activities; idiotic pranks
- **More than meets the eye** there are hidden facts that can't be seen or understood right away
- **More than one way to skin a cat** there are several different ways of reaching the same goal

N

- **Name is mud** the person is in trouble, possibly doomed and worthless
- **Need something like a hole in the head** to have no need for something at all
- **Need something like a third leg** see *Need something like a hole in the head*
- **Needle in a haystack** something hard or impossible to find; anything hopeless (in a search)
- **No skin off your nose** of totally no concern to you whatsoever; it doesn't matter to you one way or the other
- No spring chicken not young anymore

0

- **Off the beaten track (path)** not well-known or used; an unfamiliar location; unusual; different
- **Off the top of your head** stating something quickly and without thinking hard about it
- Off-the-wall shocking; very unusual
- **Off your rocker** crazy; silly, foolish; not thinking correctly

Old wives' tale a superstition; a belief or practice not based on fact

On cloud nine blissfully happy; joyous

On pins and needles waiting anxiously for something; extremely nervous; in great suspense

On the ball alert; effective; skillful; knowledgeable



On top of the world feeling extremely happy

Once bitten, twice shy when something bad happens to you, you will think twice before putting yourself in the same situation

- **Once in a blue moon** almost never; very seldom; hardly ever
- **One good turn deserves another** one good deed should be paid back with another
- **One-horse town** a place with few comforts and activities; a dull rural town
- **One-track mind** always thinking about only one subject

Open a can of worms to cause trouble; to set unpleasant events in motion

- **Out in left field** unusual; crazy; totally wrong
- **Out of sight, out of mind** if you don't see something for a long time, you'll eventually stop thinking about it
- **Out of the clear blue sky** suddenly and without any warning; totally unexpectedly
- **Out of the frying pan and into the fire** from a bad situation into one that is worse

Out of the mouths of babes children can unexpectedly say very intelligent things

- **Out of the woods** safe from trouble or danger
- **Out on a limb** taking a chance; in a dangerous position from which it is hard to withdraw or change
- **Over a barrel** helpless; in someone's power; at a disadvantage
- **Over the hill** past one's prime; unable to function as one used to; too old

Over your head a risky situation that will lead to certain failure; beyond your ability to understand something

P

- **Pay through the nose** to pay too much for something
- **People who live in glass houses shouldn't throw stones** you should not criticize others if you are just as bad as they are
- **Picture is worth a thousand words** to actually see or experience something is much better than to merely have it described to you

- **Pie in the sky** something not possible; an unrealistic hope
- **Play both ends against the middle** to pit two opponents against each other in such a way as to benefit yourself; to use each of two sides for your own purpose
- **Play cat and mouse** to fool or tease someone by pretending to let her or him go free and then catching her or him again
- **Play second fiddle** to be a follower; to be in an inferior position
- **Play with fire** to take an unnecessary and dangerous risk; to court danger
- **Poor as a church mouse** very poor; povertystricken
- **Pot calling the kettle black** the person criticizing another person's faults is guilty of the same faults himself or herself
- **Power behind the throne** the actual, but unrecognized, person in charge
- **Pull a rabbit out of a hat** to produce something that is needed as if by magic; to unexpectedly find a solution to a problem
- Pull the wool over your eyes to fool, deceive, or trick someone
- **Pull your leg** to tease or fool someone; to jokingly try to lie to somebody
- **Pull yourself together** to regain control over one's emotions and become calm after being very upset

Put all your ducks in a row to organize or finish things before moving on to something else

- **Put the cart before the horse** to do things in the wrong order
- **Put your money where your mouth is** to be willing to bet on or invest your money in something you support or believe in

Q

- **Quick on the draw** ready, alert, and quick to respond or react; mentally fast; quick to grasp information; touchy, sensitive
- **Quiet as a mouse** silent or still; making very little noise; saying nothing; hushed, subdued



R

- **Raining cats and dogs** to rain very heavily; to pour
- **Raise the roof** to be very angry, complain loudly, and make trouble
- **Rat race** a fierce, unending, stressful competition in business or society
- **Rats abandoning a sinking ship** disloyal people who desert a failing enterprise before it's too late
- **Read between the lines** to discern the true, hidden meaning or fact in any document or action
- **Red-carpet treatment** great respect and hospitality given to someone important; special treatment
- **Red herring** something deliberately misleading to divert your attention from the main subject; something irrelevant that confuses an issue
- **Red-letter day** a day remembered as especially happy and significant
- **Red tape** excessive formality and time-consuming, rigid adherence to rules and regulations
- **Right off the bat** immediately, spontaneously, and without delay
- **Rock the boat** to make trouble and disrupt a stable situation; to risk spoiling a plan; to create a disturbance
- **Rome was not built in a day** a difficult or important goal or task cannot be achieved quickly or all at once
- **Rotten apple spoils the barrel** one bad person or thing may spoil an entire group
- **Rub the wrong way** to annoy and irritate someone; to handle someone insensitively
- **Run circles around someone** to easily do something far better than someone else
- **Run off at the mouth** to talk too much; to talk nonstop

S

- **Save for a rainy day** to save for a time of need; to put something away for the future
- **Saved by the bell** rescued at the last possible moment from an embarrassing or dangerous situation

- **Scarce as hen's teeth** very, very rare or totally nonexistent
- **See eye to eye** to agree fully; to have the same opinion
- **See a pink elephant** to get so drunk you see things that don't exist
- **Sell like hotcakes** to sell quickly, effortlessly, and in quantity
- **Seventh heaven** being in an emotional state of extreme happiness
- Shake a leg to hurry up; to go faster; to speed up
- Shoot the breeze see Chew the fat
- **Sick as a dog** very sick; suffering miserably without an ailment
- **Sight for sore eyes** a most welcome, unexpected sight; a pleasant surprise
- **Sink or swim** to fail or succeed by one's own efforts without anyone's help or interference
- **Sitting duck** someone or something likely to be attacked and unable to put up a defense
- **Six of one and a half dozen of the other** one and the same; nothing to choose between; equal
- **Skate on thin ice** to take a big chance; to risk danger; to start out on a hazardous course of action
- **Skeleton in your closet** a shameful and shocking secret that people try to keep hidden
- **Smell a rat** to be suspicious; to feel that something is wrong
- Smell something fishy see Smell a rat
- **Snug as a bug in a rug** cozy and comfortable; safe and secure
- **Spare the rod and spoil the child** to physically punish children when they misbehave so they'll learn to behave properly in the future
- **Spill the beans** to give away a secret to someone who is not supposed to know it
- **Spitting image** a perfect resemblance; an exact likeness
- **Still waters run deep** somebody can be more knowledgeable or emotional than he or she first appears to be; a silent person may be intelligent
- **Stir up a hornet's nest** to make many people furious; to cause trouble



- **Straight from the horse's mouth** directly from the person or place that is the most reliable source or the best authority
- **Straighten up and fly right** to stop behaving foolishly and start acting serious
- **Strike a happy medium** to find a compromise to a problem; to find a sensible solution midway between two opposite desires
- **Strike while the iron is hot** to act at the most favorable time or moment to get the best results; to take advantage of favorable conditions
- **Swallow hook, line, and sinker** to believe a story completely without questioning it; to be very gullible
- **Swan song** the final, farewell performance of an actor or singer; one's last words or actions
- **Sweep you off your feet** to make a favorable impression; to affect with strong emotion or enthusiasm; to overcome someone with feelings of love or happiness so strong that he or she can't resist you

T

- **Take a backseat** to be in an inferior position; to take second place to another person who is in control
- **Take someone under your wing** to help, guide, or protect someone
- **Take the bull by the horns** to act bravely in a troublesome situation; to face up to a difficult challenge by taking decisive action
- **That's the way the ball bounces** that's the way life is; that's fate; things sometimes turn out a certain way and you can't do anything about it
- **That's the way the cookie crumbles** see *That's the way the ball bounces*
- **Throw a monkey wrench into the works** to interfere with a smoothly running operation; to upset something in progress
- **Throw the baby out with the bathwater** to lose or throw out something valuable or useful when getting rid of something that is useless
- **Throw the book at someone** to punish severely for breaking rules or the law; to give the maximum penalty

- **Tickled pink** to be very amused or pleased; to be delighted, entertained, or extremely happy
- Till the cows come home for a long, long time
- **Too many cooks spoil the broth** a project is set back rather than helped by too many organizers; the more people who work on one project, the worse it will turn out
- **Top banana** the leading comedian in a variety show; a boss
- Touch and go very risky, uncertain, or critical
- **Touch something with a ten-foot pole** to avoid at all costs; to stay far away from a difficult problem
- True-blue very loyal, dependable, and faithful
- **Turn up your nose at someone** to regard something with haughtiness; to be snobby; to show that someone or something is not good enough for you
- Two-faced false; dishonest
- **Two's company, three's a crowd** when you would like to do something with just one other person, a third participant would be unwelcome

U

- **Up a creek without a paddle** in deep trouble and unable to do anything about it; in serious trouble
- **Up against the wall** in big trouble; in a difficult or desperate situation
- **Upset the applecart** to spoil or interfere with a plan; to obstruct progress; to mess everything up by surprise or accident

W

- **Walk on eggs** to be very cautious; to proceed warily
- **Walking on air** to be exuberantly happy, excited, and joyful
- **Watched pot never boils** when waiting anxiously or impatiently for something to happen, it seems to take much longer
- **Water under the bridge** something that happened in the past; it's too late to worry about something that already happened



- Wear your heart on your sleeve to show one's emotions and feelings openly
- Wet behind the ears young, inexperienced, and immature
- What's good for the goose is good for the gander a rule or method of treatment that applies to one person or group must also apply to others, especially your mate
- When the cat's away, the mice will play when the person in charge is absent, people will usually do as they please and take advantage of the freedom
- Where there's smoke, there's fire there is always a basis for a rumor, no matter how untrue it appears; suspicious things usually mean that something is wrong
- White elephant any possession that is useless, unwanted, or costs a lot of money to keep

- **Wild-goose chase** a useless or hopeless search, especially because something does not exist or can't be found
- **Wolf in sheep's clothing** somebody who appears to be harmless but is really dangerous
- **Word of mouth** by one person telling another; by speaking, rather than writing

Y

- You can lead a horse to water but you can't make him drink you can encourage, but not force, someone to do something
- You can't teach an old dog new tricks people who find it difficult or impossible to change their ways or adjust to new ideas

Z

Zipper your mouth see Button your lip

21. 0.25
22. 0.9
23. 0.178
24. 0.48
25. 0.067

Arithmetic Logic

1. 4 + 3 - 2 + 1 = 6**2.** $(9 \times 2) \div 6 + 1 = 4$ or (9+2) - 6 - 1 = 4**3.** $(7 + 9) \div 4 - 3 = 1$ **4.** $[(8 \div 4) \times 3] - 4 = 2$ **5.** $(1 \times 2) + 4 + 3 = 9$ **6.** $[(3+8)-7] \times 2 = 8$ 7. $12 \times 3 \div 9 + 8 = 12$ 8. $[(15 \div 3) - 4] \times 7 = 7$ or [(15 + 3) - 4] - 7 = 7**9.** 1 + 4 + 6 - 8 = 3**10.** $2 \times 2 \times 2 - 2 = 6$ **11.** $(40 + 10) \times 2 - 30 = 70$ **12.** 20 - 10 + 60 + 20 = 90**13.** $90 \div 2 \div 5 + 1 = 10$ **14.** $60 \div 4 + 5 - 5 = 15$ **15.** $6 \times 5 \times 2 - 10 = 50$ **16.** 12 + 8 + 20 - 5 = 35**17.** $55 \times 2 - 10 + 20 = 120$ **18.** 75 - 25 + 15 - 10 = 55**19.** $80 \div 8 \times 2 \times 2 = 40$ **20.** $10 \times 10 \div 20 + 15 = 20$ **21.** $(136 - 20) \times 2 - 100 = 132$ **22.** $51 \div 3 + 12 - 1 = 28$ **23.** $164 \div 4 \times 2 + 27 = 109$ **24.** $88 \times 2 \div 4 - 10 = 34$ **25.** $100 \div 5 + 35 - 7 = 48$ **26.** $(0.75 - 0.30) \times 2 + 0.10 = 1.00$ **27.** $\frac{1}{2} - \frac{1}{6} + \frac{1}{5} = \frac{8}{15}$ **28.** $2 \times \frac{9}{10} - \frac{11}{3} = \frac{7}{15}$ **29.** $4 \times 0.25 + 0.10 - \frac{1}{2} = 0.6$ **30.** $[\binom{2}{3} + \frac{1}{2} - \frac{1}{4}] \times 2 = 1\frac{5}{6}$

Logic with a Matrix

- **1.** Jessie: skim milk; Sandy: orange juice; Jamie: spring water
- **2.** MaryBeth: python; Elizabeth: parrot; Beth: chameleon
- **3.** Melissa: problem about Warren; John: problem about Matilda; Chau: problem about Evelyn
- 4. Doug: Ms. Carr; Matt: Mr. London; Jonah: Dr. Saunders; Jenny: Ms. Parsons
- **5.** Grade 1: swimming pool; Grade 2: pond; Grade 3: ocean; Grade 4: lake
- **6.** Peter: drama; Janice: science fiction; Andrew: comedy; Samuel: westerns
- Marie: 12 km; Brian: 7 km; Sally: 10 km; Freddy: 11 km; Patricia: 5 km
- 8. Gordon: 4 hours, 40 minutes; Nikki: 3 hours, 45 minutes; Candi: 6 hours, 15 minutes; Stefanie: 5 hours, 20 minutes
- Chau: Mountain Climb; Melinda: Tilt-a-Whirl; Hannah: Swamp Coaster; Petra: Ferris Wheel; Benita: Wild Grizzly
- **10.** Camille: accountant; Josie: attorney; Beth: salon; Mike: teacher
- Serena: Charlie and the Chocolate Factory; Matthew: Tales of a Fourth Grade Nothing; Jacob: A Wrinkle in Time; Dexter: Stuart Little
- 12. Felicity: December 26; Monroe: January 2; Belinda: July 5; Wyatt: February 15; Brook: March 18
- **13.** Brian: 4782 + 999; Henry: 1644 + 777; Ernest: 827 + 699; Chrisopher: 508 + 948; Peter: 479 + 1356.
- Julie: 6 times; Kim: 9 times; J. M.: 11 times; Robbie: 2 times; Matthew: 7 times; David: 5 times
- **15.** Mikhael: 523-8199; Sondrah: 356-1178; Charleen: 631-2140; Yolanda: 817-3624
- **16.** Kevin: Sport, can stand on only two legs with the other two in the air; Earl: Bozo,

can jump over a barrel; Marvin: Harry, can jump through a hoop

- Wanda: blue, Georgetown University; Rita: green, Brown University; Barb: red, Washington University; Greta: white, Rhode Island State University
- 18. First week: Baltimore; second week: Atlanta; third week: Charlotte; fourth week: Washington; fifth week: Omaha; sixth week: Kansas City; seventh week: Seattle; eighth week: Denver

Logic Using a Venn Diagram



ISMARS

PAGE 47: Dino Bone Zone Percentage of skeleton that is complete

- 2. 249/480 bones = 52% complete 6
- 3. 10/18 bones = 55% complete
- **4.** 185/445 bones = 42% complete 7
- 5. 56/455 bones = 12% complete
- 6. 356/377 bones = 94% complete 1
- 7. 297/351 = 85% complete
- 8. 176/271 = 65% complete

PAGE 48: Milk Money

- **2.** Jacob—14 days (\$10.95 ÷ .80)
- 3. Louis-50 days (\$17.50 ÷ .35)
- 4. Molly-50 days (\$20.00 ÷ .40)
- 5. Ralph-106 days (\$26.47 ÷ .25)
- 6. Rosita-120 days (\$59.99 ÷ .50)
- 7. Tyrone---21 days (\$15.75 ÷.75)
- 8. Karen---217 days (\$65.00 ÷ .30)

PAGE 49: Money Matters

- 2. chocolate (\$10.80) more than gum (\$10.29)
- 3. apples (\$7.50) more than bananas (\$7.00)
- 4. pasta (\$13.08) more than soup (\$8.90)
- 5. lettuce (\$26.00) more than cucumbers (\$20.70)
- 6. batteries (\$59.85) more than bulbs (\$48.07)
- 7. running shoes (\$126.00) is more than shirts (\$110.25)
- 8. party dresses (\$195.00) is more than ties (\$189.00)

PAGE 50: Find Your Way Out

One kilometer is 1,000 meters, which is a little less than a mile (.62 of a mile, to be exact.) The total number of meters walked must be divided by 50, because the explorers will drop one item every 50 meters.

- 1. Jesse—yes; 3 km = 3,000 meters $3,000 \div 50 = 60$ items needed
- 2. Warner----no; 2 km = 2,000 meters $2,000 \div 50 = 40$ items needed
- 3. Mara-yes; 2.5 km = 2,500 meters $2,500 \div 50 = 50$ items needed
- 4. Brianne—yes; 1,000 meters $1,000 \div 50 = 20$ items needed
- 5. Sylvia—no; 4 km = 4,000 meters 4,000 ÷ 50 = 80 items needed
- 6. Tomas----no; 7 km = 7,000 meters 7,000 ÷ 50 = 140 items needed
- 7. Alex---yes; 1.25 km = 1,250 meters 1,250 ÷ 50 = 25 items needed
- 8. Jud--no: 2.75 = 2.750 meters 2,750 ÷ 50 = 55 items needed
- 9. Nathan—no; 1.5 km = 1,500 ÷ 50 = 30 items needed
- **10.** Livia—no; 3.5 km = 3,500 ÷ 50 = 70 items needed

	PAGE	51:	Guess	Your	Best
--	------	-----	-------	------	------

2. 56?8	5. 79?62
3. 96?14	6. 47?57
4. 37162	

PAGE 52 Mark and Darcy's

Game

5

8

3

4

- 1. 15, 18 2. 15, 17, 18 or 20, 15, 15
- 3. 25 twice; or 20, 30; or 15, 35
- 4. no, the highest he could get in 3 tosses with no bull's eye is 120
- 5. yes, because no two numbers on this board could add up to 95
- 6. 17, 27, 37 or 33, 33, 15

PAGE 53: On the Wall

- 1. five years from 2000-2005 2. 2001: Sandra; 2002: Sandra; 2004:
- Noah 3. 2000: Sandra; 2003: Alison; 2005: Nick
- 4. Sandra
- 5. ten inches
- 6. Nick
- 7. eight inches
- 8. Sandra grew seven inches from 2000 to 2001.
- 9. Nick and Alison. Nick didn't grow from 2000 to 2001 or from 2004 to 2005. Alison didn't arow from 2002 to 2003.
- 10. Sandra because she grew the most, 16 inches, in five years.

PAGE 54: Speed Readers

- 1. 16 chapters over 7 days
- 2. Scott, Thursday
- 3. Grant, Tuesday
- 4. Barry, 9, Thursday
- 5. Monday, Grant
- 6. Grant, Sunday
- 7. Lois, 10 8. Barry, Saturday
- 9. Tuesday, 7
- 10. Monday, 22

1.

PAGE 55: Think Inside the Box

Key: full = a, three-fourths = b, half = c, one-fourth = d, not begun = e

> b. one b a c. two d. none (to be half made, exactly two of the four lines of the box must be there) e. none

f. one

d	a	d	c		
d	c	b	d	a.	sixteen
С	l c	b	d	b.	two
c	c	а	b	С.	three
				d.	six

2.

e. five

f. None

PAGE 56: In Search of Numbers

1.	2	3 , 74	5. 456
2.	13	4. 86	6. 108

PAGE 57: Alien Phenomenon

	Total number of hands	Inside or outside the asteroid belt
2. Sunev	3	inside
3. Rucremy	4	inside
4. Smar	7	outside
5. Retipuj	5	outside
6. Rutans	1	inside
7. Sunaru	2	inside
8. Enutpen	6	outside
9. Otulp	7	inside

PAGE 58: One-Hit Wonder

1. 1992	6. 1988
2. 1983	7. 1995
3. none	8. none
4. 1984, 1986	9. 1990
5. none	
Answer: 1989	

PAGE 59: Break the Code!

The code (Rebmun number = Earth number):

0

1

2

3

4

5

6

7

8

9

10

= 5	2 = 3	4 = 1	6 = 2	8 = 7
= 6	3 = 9	5 = 8	7 = 0	9 = 4
.9+	0 = 9			
4 +	4 = 8			
. 1 +	6 =7			
0+	0 = 0			
4 +	3 = 7			
5+	2 = 7			
8+	1 = 9			
2+	0 = 2			
8+	8 = 16			

PAGE 60: Oops, Wrong	
1. 852-4419 2. 541-1632 2. 352-3011	
4. 288-2648 5. 666-6667	
6. 650-7997 7. 235-5799	
8. 415-4444 9. 723-1651 10. 453-4231	

e b







