Directions for your fourth-grade summer choice board activities.

This summer I would like you to choose 1 book from the suggested reading list. You can check them out from the library or purchase a copy to keep. I included different reading genres and interests for every reader! When you finish your book, pick one activity from the summer choice board to go with your book. You should have a total of 1 completed choice board activity. When you come back to school Mr. Parker will collect your math and reading work. Once I look it over you will get a treat for completing all your summer work. It is best to do a little bit each week, so you do not spend your last week of vacation hurrying to get it done. Happy reading and have a wonderful summer vacation soon to be fifth graders!

Mrs. Bartosik

Student: _____

Book Title: _____

Summer Reading
Choice Board

Think of a few songs that would compliment this story? Create a book playlist of 7-10 songs.	Create and award for this book and explain why it won. The award can be for the whole book or individual parts like characters or plot.	Sketch an image of an important/your favorite scene. Stick figures are ok but use details in the other elements.	Write a poem, song, or rap about one of the characters from the novel. What are they most known for?
Make a collage for your book with pictures you find online, or hand drawn. What 10 images would represent this story?	Choose a favorite quote from the book. Why did this quote stand out? Would it make a good Life Motto?	If you could hear the same story from another person's point of view, who would you choose? How would the story be different?	Discuss similarities and differences between this book and another book you have read. Possibly use a Venn Diagram.
Convince your teacher this book absolutely should (or should not) be taught next year. Support your opinion with specific events in the story.	Make a map of important places where the story takes place. Label with the reason why each place is significant.	Compose a letter to the author (neatly written or typed) suggesting an idea for a sequel. What do you want to see continued or updated?	Analyze the title of the book. Does it fit? What else could it be called? Write three (3) alternate titles and explain why they might work.
Summarize this novel in the fewest words possible. Aim for 30 words or less	Write a review for this book. Would you give it a thumbs up or a thumbs down? Why? Use examples from the book in your answer.	Draw a portrait of your favorite character. Include details from the story in the person's image.	Help it sell! Design a slogan for this book and use it in an ad that would encourage someone else to read it.

Summary Reading for 4th Graders

(entering 5th Grade)

The following books are the **suggested** summer reading books.
**The Public Library has multiple copies of these books. Students should
read at least 2 of the books on this list during the summer. Students may
also select a title from the additional summer reads below. Read and enjoy!**

TITLE	AUTHOR
Gregor the Overlander *	Suzanne Collins
Mr. Chickee's Funny Money *	Christopher Paul Curtis
Turtle in Paradise	**Jennifer Holm (NEW!)**
Children of the Lamp (The Akhenaten Adventure)*	P.B. Kerr
Regarding the Sink: Where, Oh Where, Did Waters Go?*	Kate Klise
Skulduggery Pleasant *	Derek Landy
Julia Gillian (and the art of knowing) *	Alison McGhee
Saffy's Angel *	Hillary McKay
The Boy Who Saved Baseball	John Ritter
The Invention of Hugo Cabret	Brian Selznick
Listening for Lions	Gloria Whelan

*Look for other books
by these wonderful
authors, as well.*

NOTE: A star * means the book is part of a series or has sequels.

ADDITIONAL GREAT SUMMER READS

Nonfiction

Growing Patterns: Fibonacci Numbers in Nature by Sarah Campbell
In nature, the number series called Fibonacci numbers (1,1,2,3,5,8,13...) often appears in the arrangement of
petals or spiral patterns in plants and animals. A beautiful photo-essay introducing Fibonacci numbers and the
idea that plants carry genetic instructions for their development, often including a mathematical pattern.

Sparky: The Life and Art of Charles Schulz by Beverly Gherman
A colorful introduction to the world's most famous cartoonist, with lots of pictures of Charlie Brown, Snoopy, and his other creations.

The Dark Game: True Spy Stories by Paul Janeczko
Ever wonder why invisible ink works? How a code breaker deciphers a message? Or whether dentistry could affect a secret agent's
success? The answers to these questions and more can be found here. Delve into the lives of famous spies and enter a world of
intrigue and danger.

Kubla Khan: The Emperor of Everything by Kathleen Krull
Complemented by intricately detailed art, this grand portrait of the Mongolian emperor introduces a mighty
ruler who supported learning and the arts while founding a dynasty in China.

Spilling Ink: A Young Writer's Handbook by Anne Mazer and Ellen Potter
Two well-known authors offer beginning writers savvy advice and hard-earned wisdom— from getting
started to getting past writer's block—in this warm and funny manual.

T-minus: The Race to the Moon by Jim Ottaviani
What happens when you take two global superpowers, dozens of daring pilots, thousands of engineers and scientists, and then point
them at the night sky and say "Go!"? **A SPACE RACE!** The whole world followed the countdown to sending the first men to the moon.
This book tells the story.

Smile by Raina Telgemeier GRAPHIC NOVEL
In sixth grade, Raina tripped while running and lost two front teeth. In the years that followed, she went through a torturous series of
dental surgeries and repairs, the trauma of which was mirrored by the social struggles she experienced during her adolescence.
Through artwork showing the details, the reader shares Raina's pain as the angst of middle school is exacerbated by her disfiguring
dental mishap.

Fiction	**The Shakespeare Stealer** by Gary Blackwood

The Shakespeare Stealer by Gary Blackwood
Widge finds himself in the middle of an adventure to steal and copy the play HAMLET from Shakespeare. He soon discovers that life in the Globe Theatre is much better than the other places he has apprenticed.

Trickster: Native American Tales: A Graphic Collection edited by Matt Dembicki
This collaborative effort by more than 40 artists and writers (including Joseph Bruchac) presents 21 Native American trickster tales in *graphic novel* format. The stories are drawn from a Native peoples across North America, and so the trickster character appears variously as a rabbit, raccoon, coyote, and other animals.

Boom! (or 70,000 light years) by Mark Haddon   SCIENCE FICTION
Two British lads discover that their teachers are space aliens bent on kidnapping science fiction fans. When the aliens realize the kids are on to them, the outrageous adventures begin.

Waggit's Tale by Peter Howe *
When a puppy gets lost in the park, he joins a well-organized pack of homeless dogs. His new friends name him Waggit for his lively tail and train him in the ways of survival. The dogs have staked out a secluded tunnel in a place much like Central Park, where they spend their days gathering food, protecting one another, spying on a rougher gang of dogs, and avoiding the "Great Unknown"—the pound.

The Secret of Zoom by Lynne Jonell
Laced into the rocks of the Starkian Ridge is a pink-and-green substance called *zoom*. Like most fuels, zoom makes things go, is definitely explosive, and worth buckets of money for the savvy prospector. What's different is that it only responds to certain notes sung by a voice fueled by fear. So bad guy, Lenny Loompski, employs a group of starved, neglected, and terrified singing orphans to mine the precious substance. Until Christina catches wind of the orphans' plight and embarks on a zoom-fueled thrill ride to save the day.

Titanic. Book One, Unsinkable by Gordon Korman
The unsinkable Titanic?? There's plenty of danger waiting for four of its young passengers. Paddy's a stowaway, escaping a deadly past. Sophie is delivered to the ship after being arrested. Juliana's father is a rich, crazy, eccentric, and Alfie is hiding a terrible secret. Their lives are forever linked with the fate of Titanic.

Gods of Manhattan by Scott Mebus
Look. What do you see? Sidewalks, skyscrapers, pigeons? There's more that only *Rory* can see. So, look again. *What do you see?* A spirit city inhabited by warrior cockroaches, malevolent subway trains, kung fu rodents, hungry gargoyles, and children made entirely of paper-mache. Built by history and legend, ruled by the Gods of Manhattan. Now everyone is racing to find Rory, the boy who can see.

A Long Walk to Water: A Novel Based on a True Story by Linda Sue Park
As Salva sits in school one day, his Sudanese village erupts into chaos and the teacher tells the children to run away. Salva leaves his family and all that is familiar and begins to walk toward a refugee camp, a temporary shelter from the violent political storm. When forced to leave the country, thousands of refugees are killed as they try to cross a crocodile-infested river; will Salva survive? How is his story linked to Nya's life in 2008? To Rochester, New York? Read this book and find out!

Kingdom Keepers: Disney After Dark by Ridley Pearson *
Using cutting-edge technology, Finn and his friends are transformed into hologram projections that guide guests through Disney World. But the new technology has unexpected effects, both thrilling *and* scary. Is it real? Is he dreaming? Finn learns the park is in grave danger. The scheming witch, Maleficent, and the mysterious Overtakers, are plotting to destroy Disney's beloved realm, and more.

Ninth Ward by Jewell Parker Rhodes
Communicating with ghosts, including the spirit of her mother, is a gift that Lanesha, 12, has had for as long as she can remember. Her beloved caretaker, Mama Ya-Ya, has a gift that allows her to predict the future. When she begins to sense that a big storm is coming to their much-loved New Orleans neighborhood, both she and Lanesha must trust in their senses and in one another to survive.

Ubiquitous: Celebrating Nature's Survivors by Joyce Sidman   POETRY
Well-researched science facts are paired with amazing and vivid poems to describe how these very special life-forms, from the single-celled bacteria to the ever-present ant and dandelion, avoided extinction to become nature's survivors.

Ghostopolis by Doug Tennapel   GRAPHIC NOVEL
When washed-up ghost wrangler, Frank, accidentally zaps Garth into the afterlife, he does everything he can to rescue him. Meanwhile, Garth explores the spirit world with a skeleton horse, terrifying and fantastic creatures, and family members he never expected to meet.

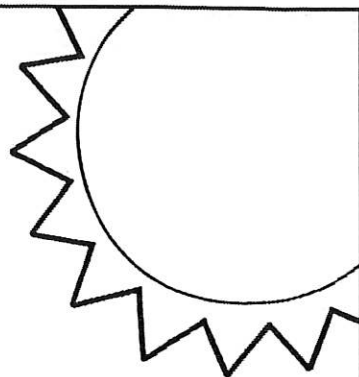**A Faraway Island** by Annika Thor
Jewish sisters, Stephie and Nellie, are evacuated from their home in Nazi-occupied Vienna to an island off the coast of Sweden, where separate foster families take them in. Nellie adjusts quickly—learning Swedish, making friends, and enjoying her new foster siblings. But Stephie has more difficulties -- tormented by bullies, a cold and critical foster mother, and worries about her parents' safety.

Sports Camp by Rich Wallace
When it comes to speed and endurance events, like running and swimming, Riley is better than he looks. He's pretty sure he can bring in major trophy points in the final mile-long swim race across Lake Surprise in the competition for the Camp Trophy. But he doesn't count on being followed by the shadow of Big Joe, the giant vicious snapping turtle of camp lore. Wasn't that supposed to be a legend?
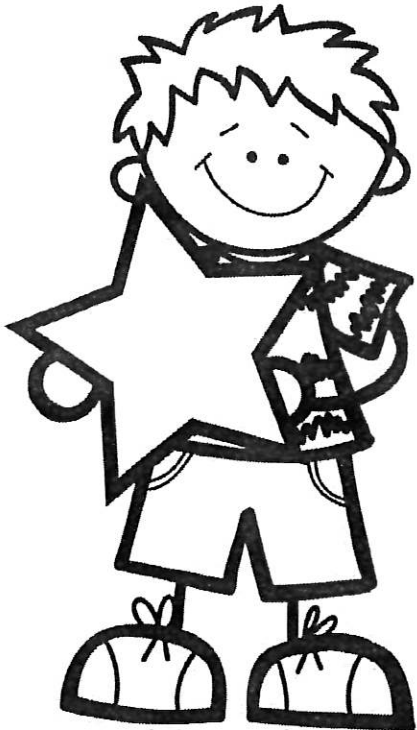
Mrs. Bartosik

FOURTH GRADE

MATH SUMMER REVIEW

This packet belongs to:

_____

Name _____ Date _____

Find the Value

1. Find the value of the underlined digit in the following number. 426,105 _____	2. Circle the number that shows 5 with the **greatest** value. 23,456 256,367 500,342 45,237	3. How many times **less** is the 6 in the tens place than the 6 in the thousands place? _____ 26,460
4. Circle the digit in the thousands place in the following number. 103,594	5. Find the value of the underlined digit in the following number. 10,478 _____	6. Circle the number that shows 7 with the **least** value. 70,593 39,207 47,406 63,735
7. How many times **greater** is the 2 in the thousands place than the 2 in the hundreds place? _____ 402,255	8. Circle the number that shows 4 with the **greatest** value. 18,642 304,562 743,620 98,104	
9. Find the value of the underlined digit in the following number. 739,485 _____	10. Circle the digit in the ten thousands place in the following number. 56,403	

1.

★ WRITING WHOLE NUMBERS ★

Name _____   Date _____

---

1. Write the following number in standard form.

two thousand, three hundred ninety-one

_____

---

2. Write the following number in word form.

63,281

_____

_____

---

3. Write the following number in expanded form.

52,473

_____

---

4. What number does the following represent?

400,000 + 20,000 + 6,000 + 800 + 5

---

5. What number does the following represent?

700,000 + 10,000 + 5,000 + 300 + 40 + 4

---

6. Circle the number with a digit in the ten thousands place that is less than 5.

77,872   152,326   220,154   89,392

---

7. Write a number with a digit in the **thousands** place <u>less than 4</u> and a digit in the **hundred thousands** place <u>greater than 5</u>.

_____

---

8. Write a number with a digit in the **hundreds** place <u>greater than 6</u> and a digit in the **ten thousands** place <u>less than 3</u>.

_____

Name _____ Date _____

Rounding Numbers

1.
Round the following number to the nearest 10.

3,467

2.
Round the following number to the nearest 100.

52,329

3.
Round the following number to the nearest 1,000.

64,580

4.
Round the following number to the nearest 10,000.

572,613

5.
Round the following number to the nearest 100,000.

132,045

5 or more, raise the score

4 or less, let it rest

6. Place 1,400 on the number line below.

1,000   2,000
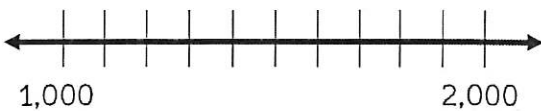
8. Place 4,500 on the number line below.

4,000   5,000
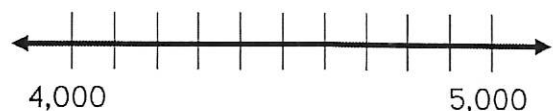
7. Round 1,400 to the nearest thousand.

_____

9. Round 4,500 to the nearest thousand.

_____

10. Round the following number to the nearest 10, 100, 1,000 and 10,000.

24,675

Nearest 10 _____   Nearest 100 _____   Nearest 1,000 _____   Nearest 10,000 _____

3.

Name _____   Date _____

add & subtract
whole numbers

1. Find the sum. 2,465 + 7,386	2. Find the difference. 5,305 − 2,622	3. Find the missing number. 4,518 + _____ 5,166
4. Find the missing number. 6,241 − _____ 4,881	5. Find the sum. 2,295 + 3,874	6. Find the difference. 8,006 − 2,380

7. The chart shows the weight of animals at the zoo. Which two animals have a <u>difference</u> in weight that is greater than 1,000 pounds?

Animal	Weight
Giraffe	1,800 lbs.
Polar Bear	2,200 lbs.
Tiger	1,000 lbs.

_____

8. A school cafeteria purchased 256 hotdogs, 332 apples, and 154 cookies. How many items did they purchase <u>in all</u>?

9. Katie solve the problem below, but the answer is incorrect. What did she do wrong?

8,364
+ 5,892
_____
13,156

4.

Name _____   Date _____

DIVIDING WHOLE NUMBERS

1. Find the quotient. Circle your answer. $315 \div 9$	2. Find the quotient. Circle your answer. $2{,}225 \div 5$	3. Find the quotient. Circle your answer. $748 \div 7$
4. Find the quotient. Circle your answer. $5{,}887 \div 3$	5. Use multiplication to check the answer. Decide if it is **correct** or **incorrect**. $547 \div 6 = 91 \, r \, 1$ ___Correct ___Incorrect	6. Use multiplication to check the answer. Decide if it is **correct** or **incorrect**. $763 \div 4 = 190 \, r \, 2$ ___Correct ___Incorrect
7. The circus sold 1,624 tickets for their upcoming event. They divided the arena into 8 equal sections. How many people were seated in each section?	8. Allie has 123 oranges to put in 11 baskets. If she evenly divides the oranges among the 11 baskets, how many oranges will be left over?	9. A summer camp needed 1,148 popsicles. Boxes of popsicles were sold with 8 in each. How many boxes did they have to buy to have enough popsicles? How many were left over?

Name _____   Date _____

Multiplication Equations

1. Jake is 9 years old. His dad is 4 times older. How old is Jake's dad?

2. Laci made 6 quarts of lemonade. Sara made 3 times as many quarts as Laci. How many quarts did Sara make?

3. Chad ran 5 miles. Sam ran 3 times as many miles as Chad. How many miles did Sam run?

4. Write a multiplication equation to match the statement.

18 pounds is 9 times as heavy as 2

5. Write a multiplication equation to match the statement.

56 apples is 8 times as many as 7

6. Write a multiplication equation to match the statement.

22 days is 11 times longer than 2 days

The chart below shows how much food farm animals eat each day. Fill in the blanks to make the statements true.

animal	horse	cow	goat	chicken
pounds of food	20 lbs.	16 lbs.	8 lbs.	2 lbs.

7. A horse eats _____ times as much as a chicken.

8. A cow eats _____ times as much as goat.

9. A goat eats _____ times as much as a chicken.

Name _____ Date _____

Comparisons
Using Multiplication & Division

1. There were 40 adults in line at a movie theater. That is 5 times the number of children in line. How many children were in line?

2. This month Tania saved 6 times as much money as last month. Last month she saved $24. How much did Tania save this month?

3. Jessie has 25 small boxes to put his rock collection in. He sorts 20 rocks into each box. How many rocks does he have in his collection?

4. A store has 152 bottles of water. This is 2 times the number of sodas they have. How many sodas does the store have?

5. There are 60 minutes in 1 hour. How many minutes are there in 48 hours?

6. Tony has 4 balloons. Max has 3 times as many as Tony, and Brian has half as many as Max. How many balloons do Max and Tony have?

7. At a carnival they sold 64 hotdogs on Friday. They sold 3 times as many hotdogs on Saturday. How many hotdogs did they sale on Saturday?

8. A pet store sold 21 kittens and 7 birds. How many times more kittens did they sale than birds?

9. A touring bus can hold 64 people. If there are 3 touring buses, how many people can ride?

10. A water park sold 12 adult tickets and 60 children's tickets. How many times more children's tickets were sold than adult tickets?

11. Trevor mows 5 times as many lawns in the summer as he does in the fall. If he mows 20 lawns in the summer, how many does he mow in the fall?

12. A moving truck is 2 times as heavy as a car. A car weighs 2,500 pounds. How much does the moving truck weigh?

Name _____ Date _____

MULTI-STEP Word Problems

1. Sara had 118 pieces of candy. She kept 10 for herself and share the rest evenly among her 12 friends. How many pieces of candy did each friend get?	2. Cassie's mom bought 12 boxes of Kool-Aid for a party. Seven of the boxes had 9 packets of Kool-Aid and the other 5 boxes had 10 packets. How many packets of Kool-Aid did Cassie's mom buy?	3. John had $84 to spend on back to school clothes. He bought a shirt for $18, a pair of shoes for $32, and a pair of jeans for $25. How much money did he have left?
4. Mrs. Smith made 4 trays of cupcakes with 48 on each tray. She divided the cupcakes evenly into 12 containers. How many cupcakes were in each container?	5. Jenny went to the market. She spent $25 dollars on fruit, $18 on vegetables, and $10 on flowers. After her purchases, she had $102 left. How much money did she have before she went to the market?	6. Sam's favorite movies are on sale for $5 each. He has $32 in his wallet, but needs to save $6 for lunch. How many movies can he buy?
7. Mr. Mash had $58 dollars to give to his children. He kept $4 and then divided the rest evenly between his 3 children. How much money did each child get?	8. Matt charged $10 to wash cars. He earned $120 on Friday. On Saturday he earned $20 more than he did on Friday. How many cars did Matt wash on Friday and Saturday?	9. On a Friday afternoon, an ice cream shop sold 24 strawberry cones, 18 chocolate cones, and 12 vanilla cones. If the 2 workers made an equal number of ice cream cones, how many cones did each worker make?

Name _____ Date _____

Factors and Multiples

1. What are the first 5 multiples of 3?	2. What are the first 5 multiples of 9?	3. What are the first 5 multiples of 4?
4. List the factors of 12.	5. List the factors of 21.	6. List the factors of 36.
7. 5, 10, 15, 20... is an example of skip counting, therefore these numbers are called _____ of 5.	8. 7 divides evenly into 14, therefore 7 is a _____ of 14.	9. True or False? 1, 2, 3, 6, 9 and 18 are all factors of 18.
10. List the first 5 multiples of 3 and 6. Circle the least common multiple. 3: _____ 6: _____	11. List the first 5 multiples of 4 and 5. Circle the least common multiple. 4: _____ 5: _____	12. List the first 5 multiples of 8 and 12. Circle the least common multiple. 8: _____ 12: _____

Know the difference!
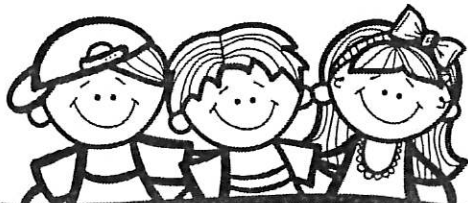
Factors: Finding all the numbers that divide evenly into a number.
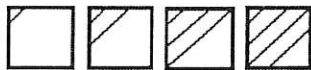
Multiples: Skip counting by a number.

Name _____   Date _____

FIND THE pattern

⭐⭐⭐   ⭐⭐⭐   ⭐⭐⭐   ⭐⭐⭐

1. If the number pattern continued, what would be the next number in the sequence?	2. What are the missing two numbers in this pattern?	3. If the number pattern continued, what would be the 7th number in the sequence?
3,000, 2,950, 2,900, 2,850 _____	___, ___, 32, 39, 46, 53, 60	105, 110, 108, 113, 111 _____
4. If the shape pattern continued, what would be the next shape in the sequence? _____	5. If the shape pattern continued, what would be the 8th shape in the sequence? _____	6. If the shape pattern continued, what would be the 7th shape in the sequence? _____
7. Start at 48 and create a pattern with the rule add 3. What would be the 5th number in the pattern? 48 ___ ___ ___ ___	8. Start at 14 and create a pattern with the rule add 4, subtract 2. What would be the 6th number in the pattern? 14 ___ ___ ___ ___	9. Start at 26 and create a pattern with the rule subtract 6, add 3. What would be the 6th number in the pattern? 26 ___ ___ ___ ___
10. A number pattern follows this sequence. **Add 4, subtract 5, multiply by 3** and repeat. Use this pattern to fill in the blanks below. 6 ___ ___ ___	11. A number pattern follows this sequence. **Add 6, subtract 3, multiply by 5** and repeat. Use this pattern to fill in the blanks below. 3 ___ ___ ___	12. A number pattern follows this sequence. **Add 5, subtract 2, multiply by 4** and repeat. Use this pattern to fill in the blanks below. 2 ___ ___ ___

Comparing fractions

1. Fill in the circle with:

$<, >$ or $=$

2. Fill in the circle with:

$<, >$ or $=$

3. Fill in the circle with:

$<, >$ or $=$

4. Fill in the circle with:

$<, >$ or $=$

$$\frac{1}{2} \bigcirc \frac{2}{3}$$

5. Fill in the circle with:

$<, >$ or $=$

$$\frac{6}{8} \bigcirc \frac{3}{4}$$

6. Fill in the circle with:

$<, >$ or $=$

$$\frac{4}{5} \bigcirc \frac{4}{6}$$

7. Circle the largest fraction.

$$\frac{1}{8} \qquad \frac{3}{4} \qquad \frac{2}{6}$$

8. Circle the largest fraction.

$$\frac{4}{5} \qquad \frac{1}{2} \qquad \frac{2}{3}$$

9. Circle the largest fraction.

$$\frac{3}{6} \qquad \frac{5}{8} \qquad \frac{1}{4}$$

10. Write **TRUE** or **FALSE** beside each comparison below.

$$\frac{3}{10} > \frac{3}{4} \underline{\hspace{2cm}}$$

$$\frac{4}{6} = \frac{2}{3} \underline{\hspace{2cm}}$$

$$\frac{5}{12} < \frac{6}{10} \underline{\hspace{2cm}}$$

11. Write **TRUE** or **FALSE** beside each comparison below.

$$\frac{4}{8} = \frac{2}{4} \underline{\hspace{2cm}}$$

$$\frac{5}{8} < \frac{1}{2} \underline{\hspace{2cm}}$$

$$\frac{8}{10} > \frac{5}{6} \underline{\hspace{2cm}}$$

12. Write **TRUE** or **FALSE** beside each comparison below.

$$\frac{3}{8} > \frac{4}{10} \underline{\hspace{2cm}}$$

$$\frac{2}{3} < \frac{1}{5} \underline{\hspace{2cm}}$$

$$\frac{6}{8} = \frac{3}{4} \underline{\hspace{2cm}}$$

14.

Name _____   Date _____

aDDiNG & SUBtracting
fractions

1. Find the difference. Show your answer in simplest form. $\dfrac{7}{8} - \dfrac{3}{8} =$ _____	2. Find the difference. Show your answer in simplest form. $\dfrac{8}{10} - \dfrac{2}{10} =$ _____	3. Find the difference. Show your answer in simplest form. $\dfrac{6}{12} - \dfrac{4}{12} =$ _____
4. Find the sum. Show your answer in simplest form. $\dfrac{2}{3} + \dfrac{1}{3} =$ _____	5. Find the sum. Show your answer in simplest form. $\dfrac{3}{6} + \dfrac{1}{6} =$ _____	6. Find the sum. Show your answer in simplest form. $\dfrac{5}{14} + \dfrac{3}{14} =$ _____
7. Decompose the fraction below. $\dfrac{3}{8}$ __ + __ + __ = $\dfrac{3}{8}$	8. Decompose the fraction below. $\dfrac{4}{5}$ __ + __ + __ + __ = $\dfrac{4}{5}$	9. Decompose the fraction below. $\dfrac{2}{3}$ __ + __ = $\dfrac{2}{3}$

10. Write the improper fraction as a mixed number. $\dfrac{9}{4}$	11. Write the improper fraction as a mixed number. $\dfrac{7}{5}$	12. Write the mixed number as an improper fraction. $5\dfrac{1}{3}$	13. Write the mixed number as an improper fraction. $2\dfrac{4}{9}$

15.

Name _____ Date _____

Fraction Models
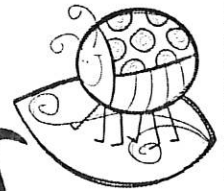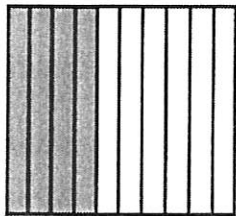
1. Write a decimal and fraction to represent the shaded part of the model below. Decimal: _____ Fraction: _____	2. Write a decimal and fraction to represent the shaded part of the model below. Decimal: _____ Fraction: _____	3. Write a decimal and fraction to represent the shaded part of the model below. Decimal: _____ Fraction: _____
4. This model shows 6/10. If the model was divided into 100 equal parts. How many parts would be shaded? _____	5. This model shows 20/100. If the model was divided into 10 equal parts. How many parts would be shaded? _____	6. A paper clip weighs 3/100 of an ounce, a centimeter cube weighs 1/10 of an ounce, a magnet weights 8/10, and an eraser weighs 12/100 of an ounce? Which weighs more? _____
7. Find an equivalent fraction for 5/10 with a denominator of 100. _____	8. Find an equivalent fraction for 70/100 with a denominator of 10. _____	9. Find an equivalent fraction for 9/10 with a denominator of 100. _____
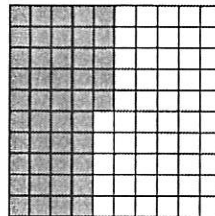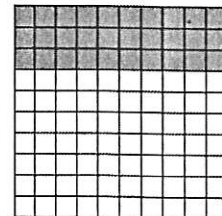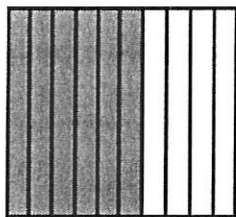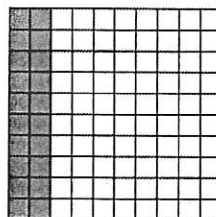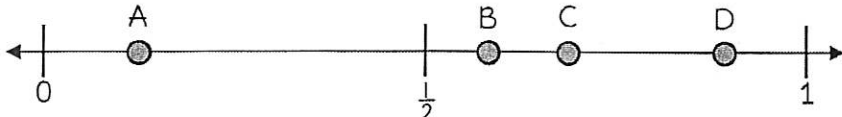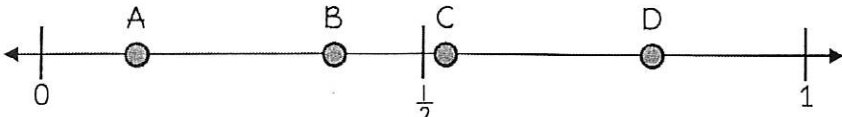
17.

Name _____   Date _____

FRACTIONS & decimals

1. Represent the following fraction as a decimal. $\dfrac{2}{10}$ _____	2. Represent the following fraction as a decimal. $\dfrac{8}{100}$ _____	3. Represent the following fraction as a decimal. $\dfrac{40}{100}$ _____
4. Represent the following decimal as a fraction. 0.5 _____	5. Represent the following decimal as a fraction. 0.22 _____	6. Represent the following decimal as a fraction. 0.73 _____
7. Represent the following decimal in word form. 0.8 _____	8. Represent the following decimal in word form. 0.30 _____	9. Represent the following decimal in word form. 0.6 _____

10. Circle the letter on the number line that best represents $\dfrac{86}{100}$.

A _____ B _ C _____ D

0 .... $\frac{1}{2}$ 1

11. Represent the following fraction in word form. $\dfrac{3}{10}$

_____

12. Circle the letter on the number line that best represents $\dfrac{4}{10}$.

A _____ B _ C _____ D

0 .... $\frac{1}{2}$ 1

13. Represent the following fraction in word form. $\dfrac{52}{100}$

_____

18.

Name _____   Date _____

COMPARING
Decimals

Write the decimal shown in each model below. Then, compare the models below using <, > or =.

1. ⬚ ◯ ⬚

2. ⬚ ◯ ⬚

_____   _____   _____   _____
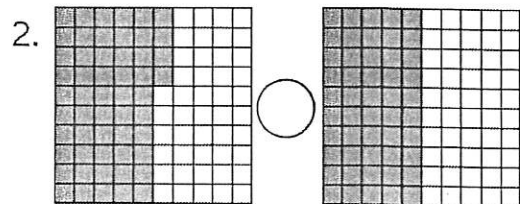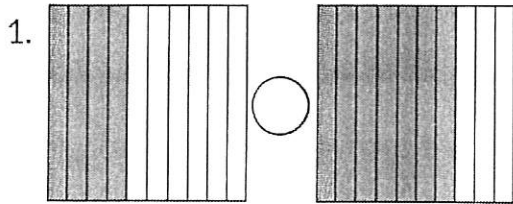
3. Circle the expressions that show a correct comparison of decimals.	4. Compare the decimals below using <,> or =.	5. Compare the decimals below using <,> or =.
0.3 < 0.9	0.84 ◯ 0.80	0.2 ◯ 0.20
0.45 > 0.65	0.4 ◯ 0.7	0.64 ◯ 0.6
0.32 > 0.30	0.42 ◯ 0.42	0.3 ◯ 0.32
0.1 > 0.10		

6. A decimal is modeled by the shaded part on the grid below. Write a sentence correctly comparing this decimal to $\dfrac{2}{10}$.

_____
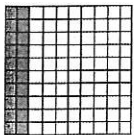
7. A decimal is modeled by the shaded part on the grid below. Write a sentence correctly comparing this decimal to $\dfrac{50}{100}$.

_____
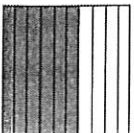
Name _____   Date _____

Sizes of Units

1. Complete the table below.

yards		2		5
feet	3		12	

2. Complete the table below.

cups	2		6	
pints		2		4

3. Complete the table below.

pounds		2		4
ounces	16		48	

4. Complete the table below.

minutes	60		180	
hours		2		4

5. Complete the table below.

centimeters		300		900
meters	1		6	

6. Complete the table below.

kilometers	1		6	
meters		3,000		9,000

7. Compete the table below.

kilograms		4		9
grams	1,000		6,000	

8.

milliliters	1,000		5,000	
liters		3		8

9. A box containing 4 equally sized melons weighed 8 kilograms. What is the weight of each melon in grams?

10. A 3 meter rope was cut into 6 equal lengths? How many centimeters long was each length of rope?

11. A dairy cow makes 6,000 milliliters of milk per day. How many liters of milk does the cow make in 3 days?

12. Maci swam around the pool in 2 minutes. Jen swam around the pool in 160 seconds. How much faster was Maci's time than Jen's time?

© Kim Miller 2014   20

Name _____   Date _____

Area ☐☐☐☐☐☐☐☐☐☐☐ & Perimeter

1. Determine the square units of the figure below. _____	2. Determine the area for the rectangle below. 6 cm [rectangle] 2 cm _____	3. Determine the perimeter for the rectangle below. 5 in. [rectangle] 4 in. _____
4. Mr. Michael has a dog pen with an area of 120 sq. feet. The length of his dog pen is 12 feet. What is its width? _____ 12 ft. [A = 120 sq. ft.] ?	5. Lani's mom wants to put a fence around her garden. How many feet of fencing will she need? 22 ft. _____ [Garden] 18 ft.	6. What is the perimeter of the figure below? 10 in. 7 in. [figure] 8 in. 5 in. 1 in. 2 in. 3 in. ? _____
7. A library added a new outdoor reading section that was 24 feet by 16 feet What was the area? _____	8. An island in the Atlantic Ocean is 10 miles wide by 6 miles long. What is the perimeter of the island? _____	9. A kiddie pool has the perimeter of 36 meters. The length of one side is 10 meters. What is the width of the pool? _____
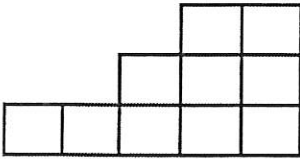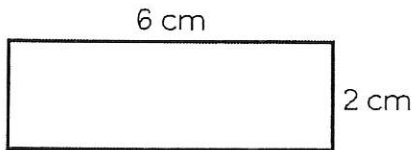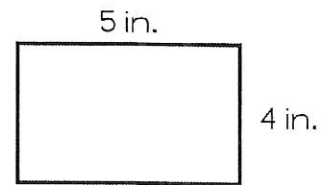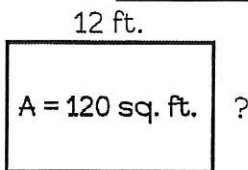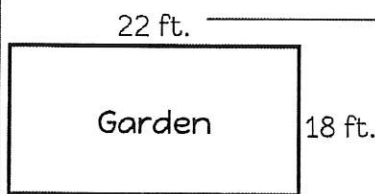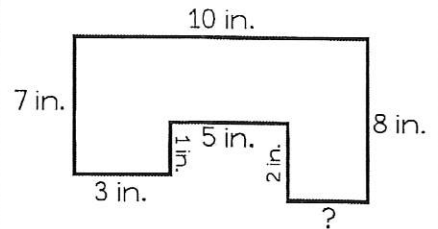
Name _____ Date _____

MEASURING Angles
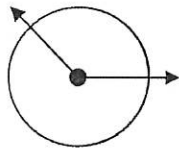
1. Based on the circular angle below. What is the best measurement for the angle? a. less than 90° b. more than 90° c. more than 180° d. less than 60°	2. Based on the circular angle below. What is the best measurement for the angle? a. less than 90° b. more than 90° c. more than 70° d. less than 120°	3. Calculate the value of Molly's name if an acute angle is worth 5 points, a right angle is worth 7 points, and an obtuse angle is worth 9 points. **MOLLY** _____
4. If the angle below rotates 25° at each interval, how many times would it need to rotate to cover 180°? _____	5. If the angle moves 2° each second which circle would it take longer to travel around? _____	6. The clock shows an angle made by the hour and minute hands. Describe the best measurement for the angle. _____
7. Which choice best represents angle ∠ABC? a. 90° b. 130° c. 45° d. 110°	8. Which choice best represents angle ∠LMN? a. 20° b. 160° c. 65° d. 120°	9. Which choice best represents angle ∠LMN? a. 45° b. 105° c. 90° d. 85°
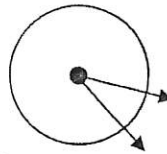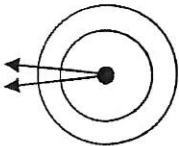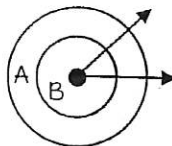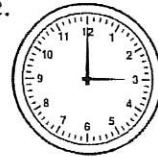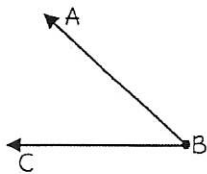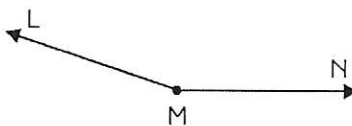
24.
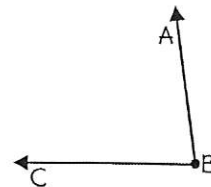
Name _____ Date _____

USING A Protractor

Use the protractors to measure the angles.

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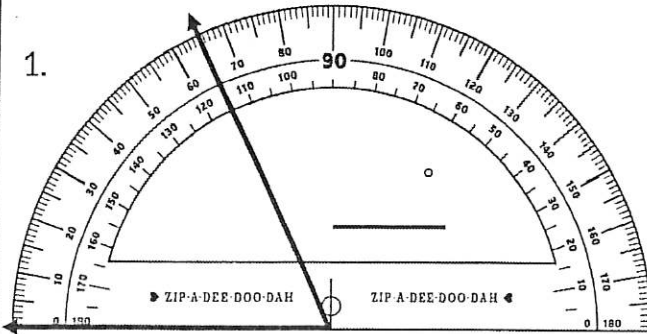
2.
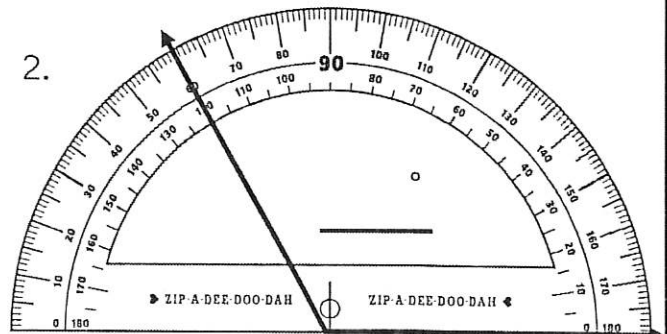
3.
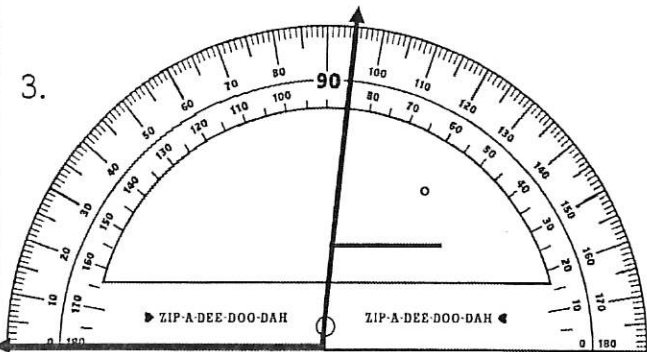
4.
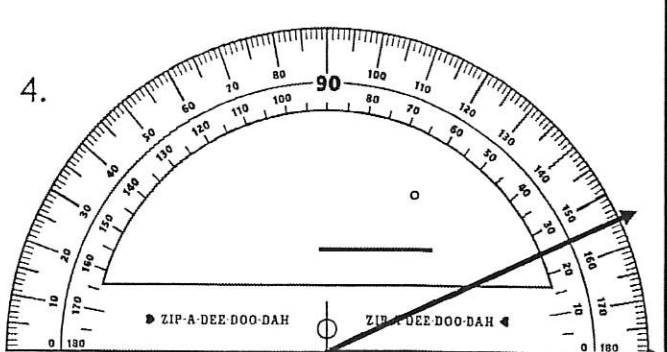
5.
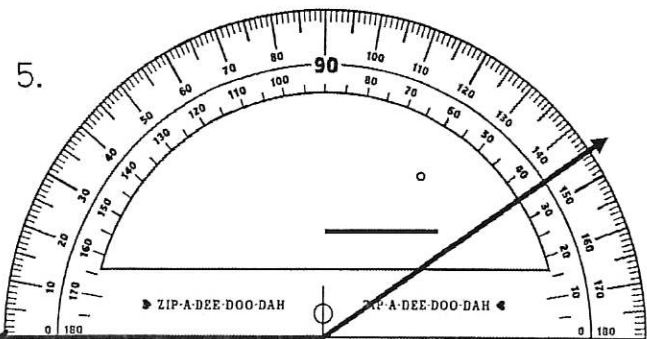
6.
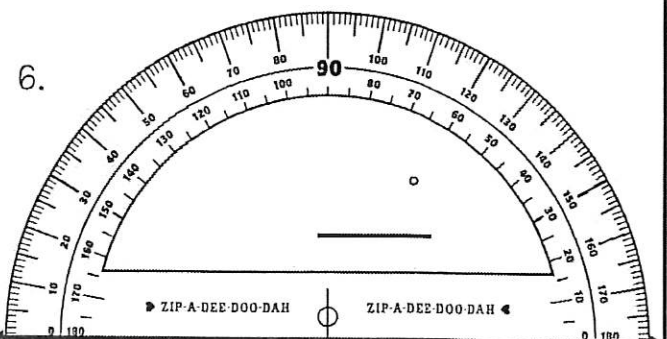
Name _____ Date _____

Missing Measurements

Determine the missing measurement in the angles below.

1.
50°
45°
×
X = _____

2.
134°
60°
×
X = _____

3.
90°
31°
×
X = _____

4.
84°
39°
A
X = _____

5.
A
48° 105°
X = _____

6.
A
49°
69°
X = _____
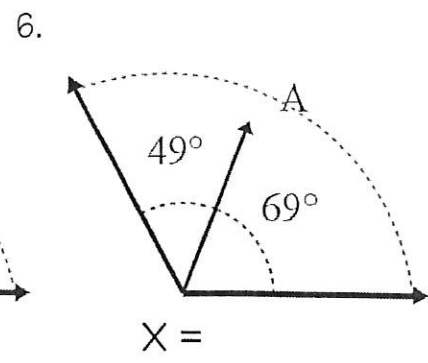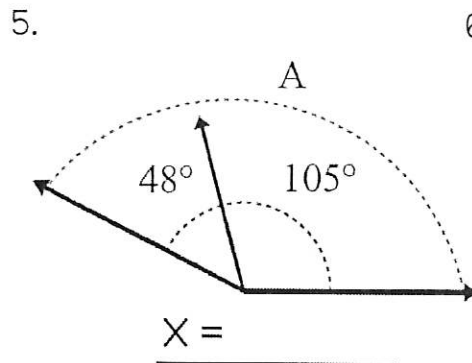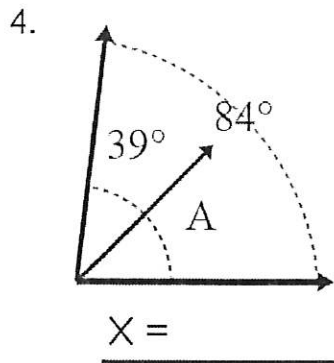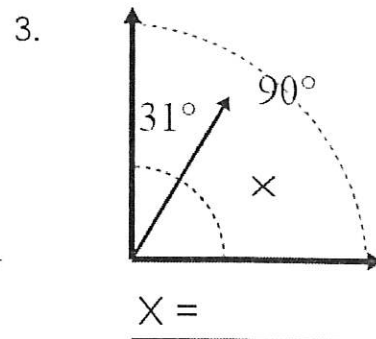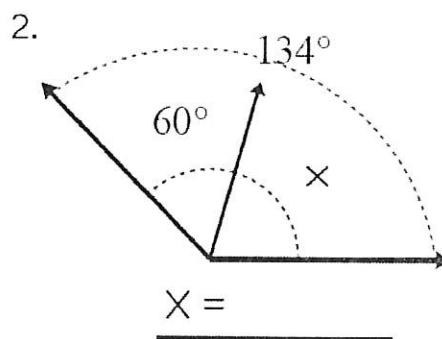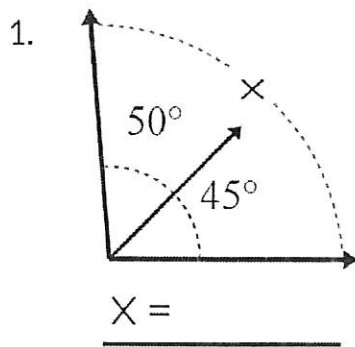
7. Greg's ceiling fan rotates 30° and then stops. How many more times does it need to rotate to make a full rotation?

_____

8. Mr. Norris has a water sprinkler that covers 120° of his yard. How many times will he need to move the sprinkler in order to cover the full 360° of his yard?

_____

9. I turned the dial on my stove 45° from the start position. If I continue to turn the dial, how many degrees further will I need to rotate it to return to the start position?

_____

26.

Name _____   Date _____

LINES, Angles & Rays
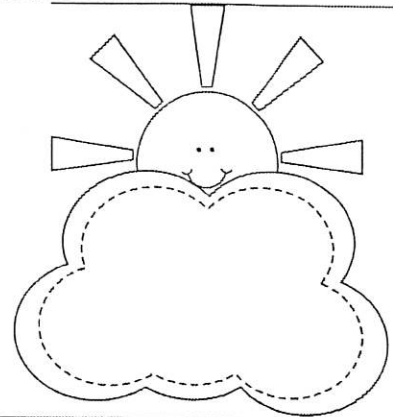
Use the words in the box to the label the figures correctly.

line	line segment	ray
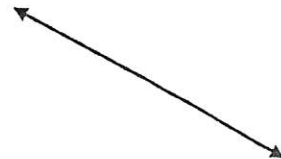
1. _____

2. _____

3. _____

Use the words in the box to the label the figures correctly.

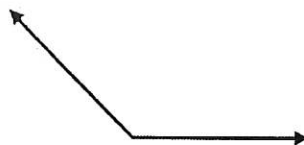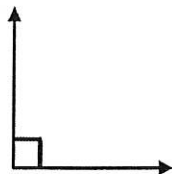| parallel lines	intersecting lines	perpendicular lines
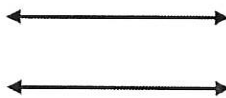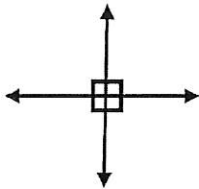
4. _____

5. _____

6. _____

Use the words in the box to the label the figures correctly.

acute angle	obtuse angle	right angle
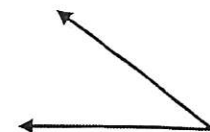
7. _____

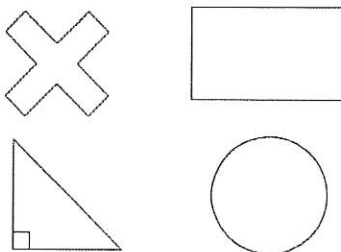8. _____

9. _____

Name _____   Date _____
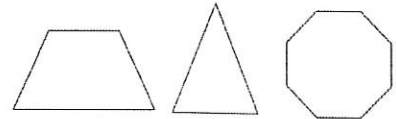
Classifying Shapes
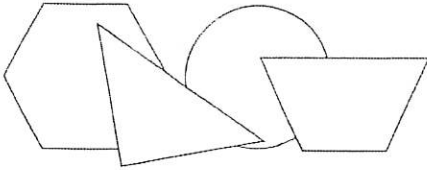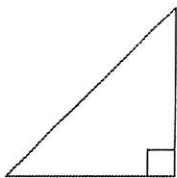
1. Circle the shapes that have parallel lines.
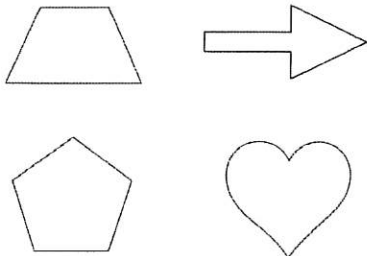
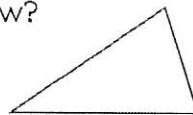2. Circle the shapes that have perpendicular lines.

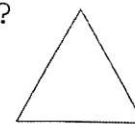3. Circle the shape that has acute and obtuse angles.
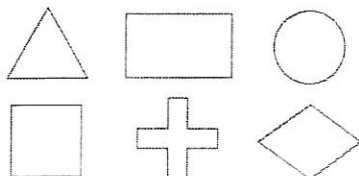
4. Identify the figure below.

5. Annie says that that this figure is a scalene triangle. How does she know?

_____

6. Nate says that that this figure is an equilateral triangle. How does he know?
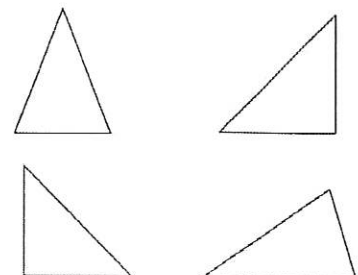
_____

7. Sam sorted the following figures. He put some of them in a group of quadrilaterals. Circle the figures he placed into this group?

8. If Janie sorted figures into a group of 3 sides and 1 right angle? Which of the following shapes would belong in this group.

   scalene triangle

   right triangle

   equilateral triangle

9. Circle the right triangles below.

Name _____ Date _____

Lines of Symmetry

1. Lani sorted the following figures into groups. Circle the figures that she put into a group with 0 right angles and more than 2 lines of symmetry.

2. Circle the figures that show a line of symmetry.

3. Max found six lines of symmetry in a hexagon below. Was he correct? Draw lines of symmetry in the hexagon below to find out.

___Correct   ___Incorrect

4. Kate folded a rectangle along the line shown below. Does this fold show a good line of symmetry?

___Yes   ___No

5. Greg sorted the figures below in groups. Circle the figures that he put into a group with at least 2 right angles and more than one line of symmetry.

6. In which figures below is every diagonal **always** a line of symmetry?

7. Circle the letters below that have **exactly one** line of symmetry.

**E N
O T**

8. Ann sorted the figures below in groups. Circle the figures that she put into a group with parallel lines.

9. Randy found 1 line of symmetry in the star below. Was he correct? Draw lines of symmetry in the star below to find out.

___Correct   ___Incorrect