Summer Packet

4th Grade

Getting ready for 5th

Name:	Date:
Eureka Math - 4th Grade - Module 1	End-of-Module **Study Guide**

1. Place commas in the numbers below

    a. 31872

    b. 39453990

2. 347,491
    a. What is the value for each number four in the number above?

    b. How many times greater is one 4 than the other? Use a picture, numbers, or words to explain.

3. Compare using >, <, or =. Write your answer inside the circle.

    a. 364,000 ◯ 306,000

    b. 19,121 ◯ nineteen thousand, twenty one

4. Solve. Write your answer in **Standard Form**

    a. What is 9 ten thousands + 4 ten thousands?

    b. What is 3 hundred thousands – 7 thousands?

5. Norfolk, VA, has a population of 328,452 people. Baltimore, MD, has 291,776 more people than Norfolk. Charleston, SC, has 192,984 less people than Baltimore.

    a. What is the total population of all three cities? Draw a tape diagram to model the word problem. Then, solve the problem.

    b. Record Norfolk, VA's population in numbers, in words, and in expanded form.

6. Find the product of each below

    a. 52,462 x 10 = _____

    b. 8,762 x 1,000 = _____

    c. 912,463 x 0 = _____

    d. 14,476 x 100 = _____

7. Directions – Fill in the table below. Round each number to the nearest place indicated. Draw a number line if you need it.

Number	Nearest Hundred Thousand	Nearest Ten Thousand	Nearest Thousand	Nearest Hundred
375,817				
4,992				

8.

a.	b.
886 +549	7,965 + 987

9.

a.	b.
4,659 –1,286	2,003 – 867

Name:	Number:	Date:
Eureka Math - 4th Grade - Module 2	End-of-Module Assessment (Study Guide)	

Length	
1 km	1,000 m
1 m	100 cm

Mass	
1 kg	1,000 g

Capacity	
1 L	1,000 mL

1. Complete the conversion charts

Length	
7 km	m
10 km	m
4 km 379 m	m

Mass	
9 kg	g
25 kg 451 g	g
3 kg 92 g	g

Capacity	
8 L	mL
32 L 776 mL	mL
597 L 7 mL	mL

2. Find the sum or difference.

a. 768 km 56 m + 49 km 59 m

b. 28 kg 74 g – 12 kg 95 g

c. 143 L 79 mL + 7,750 mL

d. 1m - 27 cm

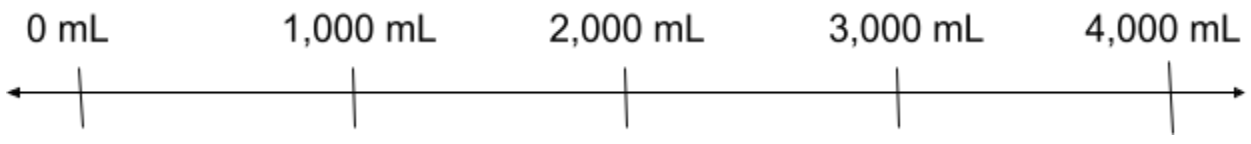
3. Compare using >, <, or =. Write your answer inside the circle.

a. 49 kg 20 g ◯ 49,200 g

b. 370 m ◯ 4,000 cm

4. Plot the points on the number line

3,079 mL 2 L 79 mL 480 mL



For the problems below, use **tape diagrams**, numbers, and words to explain each answer.

5. Billy is training for a marathon and drinking more water. On Saturday, he drank 4 liters 629 milliliters of water. On Sunday, he drank some more. If Billy drank a total of 7 liters 755 milliliters of water on Saturday and Sunday, how many milliliters of water did Billy drink on Sunday?

Saturday: _____

Saturday + Sunday: _____

Sunday: _____

6. Brian is 2 meters 15 centimeters tall. Bonnie is 76 centimeters shorter than Brian. Betina is 31 centimeters taller than Bonnie. How tall is Betina?

Brian: _____

Bonnie: _____

Betina: _____

Name:	Date:
Eureka Math - 4th Grade - Module 3	End-of-Module Assessment (Study Guide)

1. List all the multiples of 6 until 36.

_____, _____, _____, _____, _____, _____

2. Fill in the blanks.

8 x 5,000 = _____	_____ x 20 = 1,400	70 x 30 = _____	_____ x 60 = 48,000

3. Identify each number as **prime** or **composite**. Then, list **all** of its factors

Number	Prime or Composite?	Factors
11		
25		

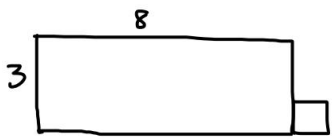
4. Explain why 3 is a factor of 36.

5. Use any strategy to divide.

3,600 ÷ 9

6. Solve using an area model. An example is provided for you.

Example: 25 ÷ 3

Area Model


23 ÷ 5

Area Model

7. Solve the division problems below using the **<u>standard algorithm</u>**.

a. 427 ÷ 3	b. 3,539 ÷ 5

8. Solve using the **area model** and **standard algorithm**.

   6 x 543

   Area Model: Standard algorithm:

9. Solve using the area model and standard algorithm.

   29 x 56

   Area Model: Standard algorithm:

10. There are 3 boxes of pencils. 96 pencils come in a box. If all the pencils were shared equally with 4 teachers, how many pencils does each teacher receive? Will there be any extras?

Number of pencils in each box:_____

Total number of pencils:_____

Number of pencils each teacher receives:_____

Extra Pencils: _____

Solve using a model or equation. **Show your work, and write your answer as a statement.**

11. A new grocery store is opening next week.

    a. The store's rectangular floor is 42 meters long and 39 meters wide. How many square meters of flooring do they need? Use estimation to assess the reasonableness of your answer.

    b. What is the perimeter of the store's floor?

Extra Credit: +1 point

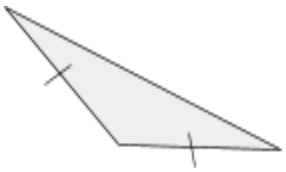
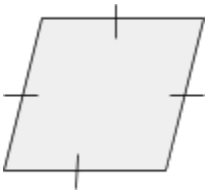
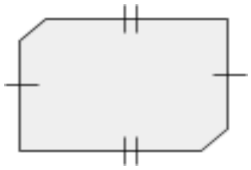
12. There are three numbers for the combination to the store's safe. The first number is 17. The other two numbers can be multiplied together to give a product of 28. What are all of the possibilities for the other two numbers? Write your answers as multiplication equations, and then write all of the possible combinations to the safe.

Multiplication Table

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

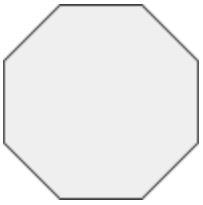
Name:	Date:
Eureka Math - 4th Grade - Module 4	End-of-Module Assessment (Study Guide)

1. Find and draw all lines of symmetry in the following figures. Write the number in the line below, If there are none, write “none.”

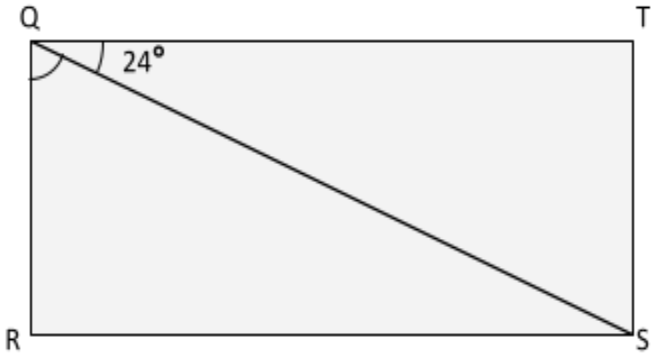
a.  _____	b.  _____
c.  _____	d.  _____

2. a. How many lines of symmetry does an octagon have?

   b. Where do **all** lines of symmetry cross?



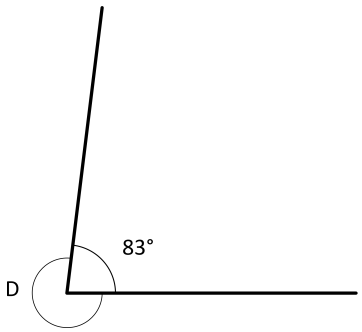
3. In the following figure, QRST is a rectangle. Without using a protractor, determine the measure of ∠RQS. **Write an equation** that could be used to solve the problem.



4. For each part below, find all unknown angle measurements.

   a. Find the measure of ∠*D*.

   Show your work.



   ∠D=_____

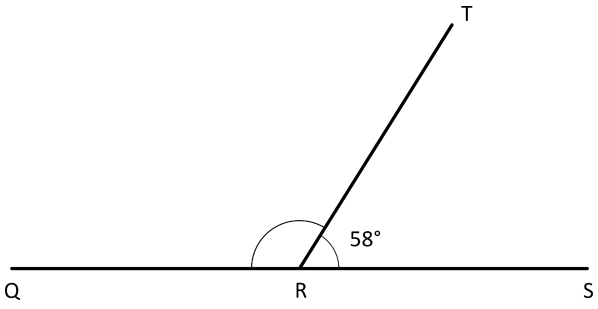
   b. In this figure, Q, R, and S lie on a line. Find the measure of ∠QRT.

   Show your work.

   ∠QRS= _____

   ∠TRS= _____

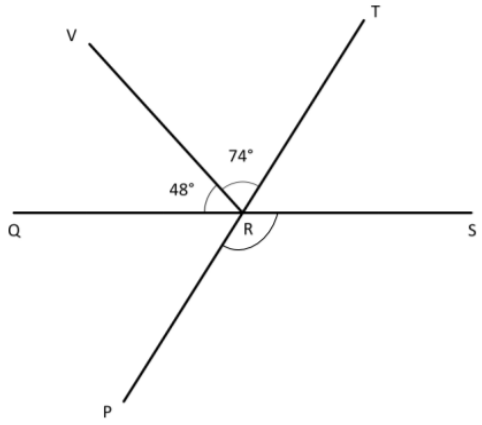
   ∠QRT= _____



c. In this figure, Q, R, and S lie on a line, as do P, R, and T. Find the measure of ∠PRS.

Show your work.

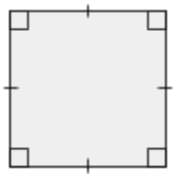
∠PRS = _____



5. Draw each of the following figures:

Line	Line Segment	Ray	Point

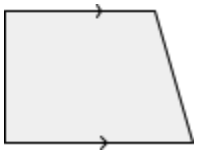
6. Identify the quadrilaterals.

a. 

_____

b. 

_____

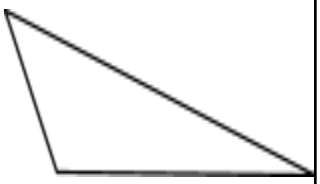
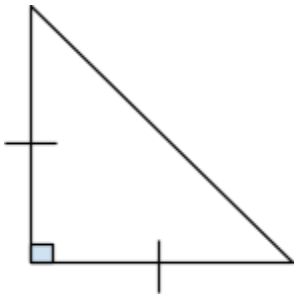
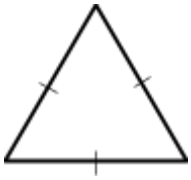
c. 

_____

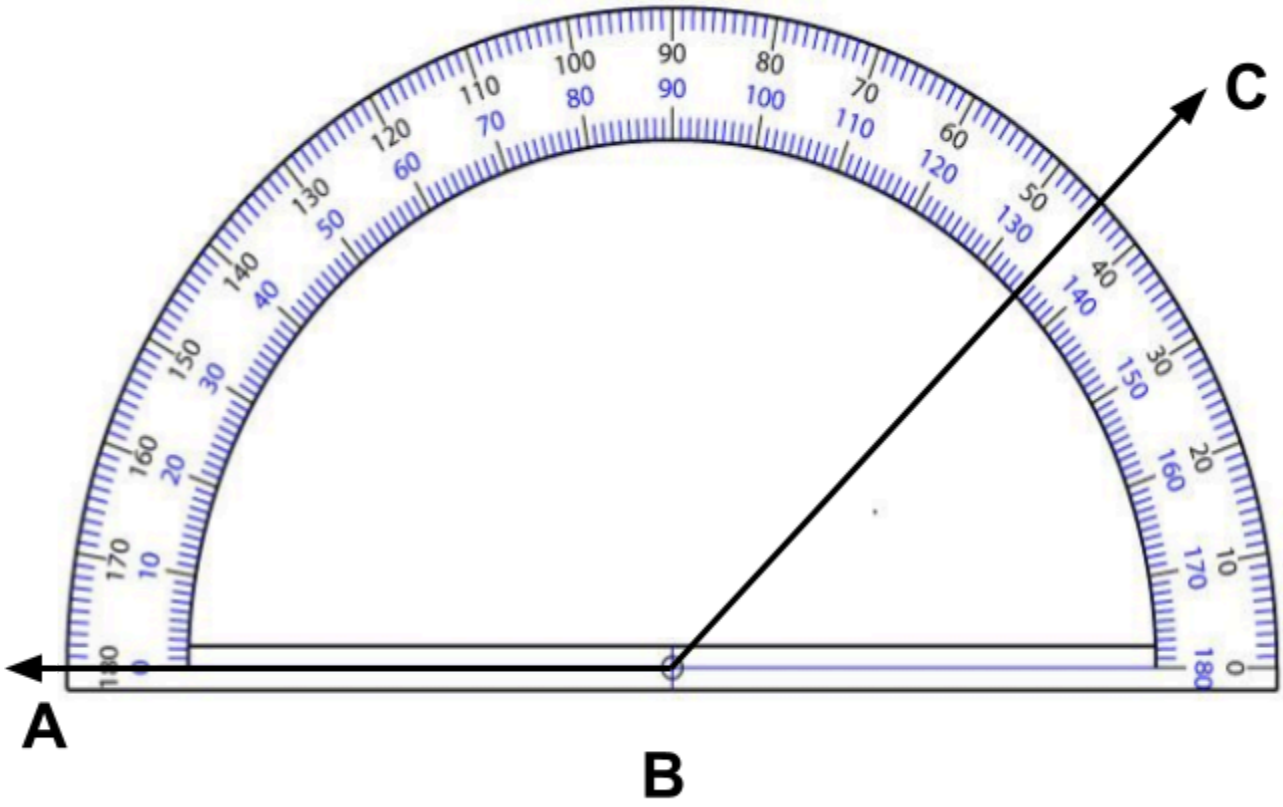
d. 

_____

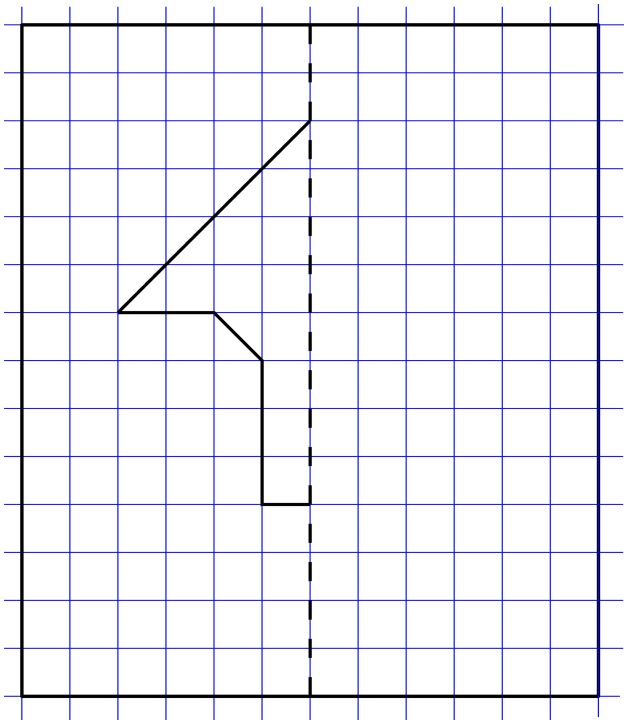
7. Classify each triangle by its side lengths and angle measurements. Circle the correct names.

	Classify Using Side Lengths	Classify Using Angles
	Equilateral Isosceles Scalene	Right Obtuse Acute
	Equilateral Isosceles Scalene	Right Obtuse Acute
	Equilateral Isosceles Scalene	Right Obtuse Acute

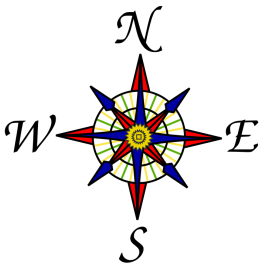
8. What is the measurement for $\angle ABC$?



9. Below is half of a line-symmetric figure and its line of symmetry. Use a ruler to complete the drawing.



10. Use the compass rose to answer the following:



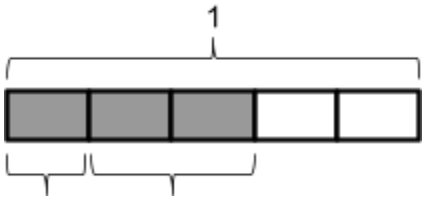
a. Maddy faced East. She turned to her right until she was facing North. How many degrees did she turn?

b. **Extra Credit (+½ pt):**

Sam was facing North. He turned toward his right until he faced East. Alisha was facing South. She turned toward her right until she faced West. What fraction of a full turn did each person complete? Through how many degrees did each person turn?

Name:	Date:
Eureka Math - 4th Grade - Module 5	End of Module Assessment - (Study Guide)

1. Write the number sentence to match the tape diagram.



2. Use the area model and multiplication to create an equivalent fraction for the fraction below.

$\frac{3}{4} = \_\_\_$

3. Use division to simplify the fraction given below. Draw a model if that helps you.

$\frac{12}{16}$

4. Compare the fraction. Use <, >, or =. Draw tape diagrams or number lines if it helps.

a. $\frac{3}{5} \bigcirc \frac{4}{10}$

b. $\frac{34}{6} \bigcirc \frac{23}{5}$

c. $\frac{6}{5} \bigcirc \frac{9}{8}$

d. $\frac{5}{7} \bigcirc \frac{20}{27}$

5. Solve. If the final answer is greater than 1 whole, record it as a mixed number.

a. $6\frac{4}{10} + 7\frac{7}{10}$

b. $1\frac{3}{6} + 8\frac{7}{12}$

c. $4 - 1\frac{4}{11}$

d. $5\frac{2}{5} - 1\frac{3}{5}$

6. Find the product of $4 \times 6\frac{2}{3}$ using an area model or the distributive property..

7. Rename the improper fraction as a mixed number.

$$\frac{18}{5}$$

8. Convert the mixed number to an improper fraction.

$$4\frac{2}{3}$$

9. Fill in the blanks to make the statement true. Write your answer as a mixed number.

   a. $7 \times \frac{4}{7} =$

   b. $5 \times \frac{7}{8} =$

10. Mrs. Jones had $1\frac{3}{8}$ pizzas left after a party. After giving some to Gary, she had $\frac{7}{8}$ pizza left. What fraction of a pizza did she give Gary?

Amount of pizza: _____

Pizza left over:_____

Pizza given to Gary: _____

11. Morgan poured $\frac{3}{4}$ gallon of punch into each of 6 bottles. How many gallons of punch did she pour in all?

Amount of punch in each bottles:_____

Number of bottles: _____

Total amount of punch: _____

12. Brad drove $2\frac{5}{10}$ miles on Thursday. He drove 4 times as far on Friday. How far did he drive in the two days?

Miles on Thursday: _____

Miles on Friday: _____

Miles on both days: _____

13. The chart to the right shows the name and weight of some poodles.
Use the data to create a line plot and to answer the following questions.

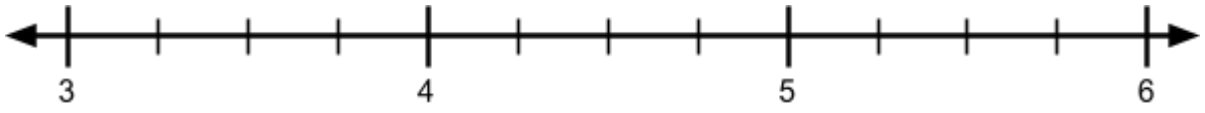
a. At the bottom of this page, create a line plot to display the data in the table.

Poodle	Weight (in pounds)
Fluffy	$5\frac{1}{4}$
Sparky	$3\frac{3}{8}$
Mimi	$3\frac{5}{8}$
Poppy	$4\frac{2}{4}$
Rufus	$3\frac{7}{8}$

b. Order the poodles' weight from **least to greatest** and from **greatest to least**

_____ < _____ < _____ < _____ < _____

_____ > _____ > _____ > _____ > _____



Extra Credit:

1. $3\frac{3}{4} + 6\frac{5}{8} + 1\frac{1}{2}$

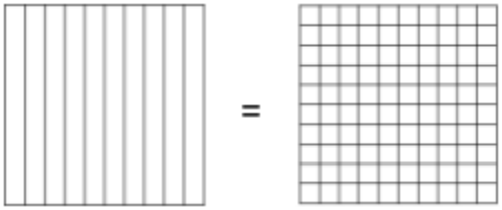
2. $5 \times \_\_\_ \frac{3}{4} = 18\frac{3}{4}$

3. $3 \times 8\frac{1}{2} = \_\_\_\_ \frac{1}{2}$

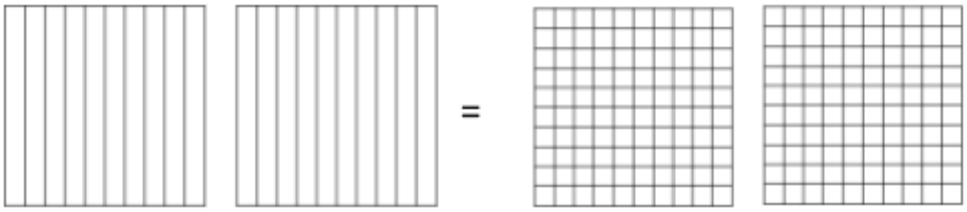
Name:	Date:
Eureka Math - 4th Grade - Module 6	End of Module Assessment - (Study Guide)

1. Decompose each fraction into hundredths using area models. Then, write the equivalent number sentence using **decimals**.

a. $\frac{6}{10} =$ _____

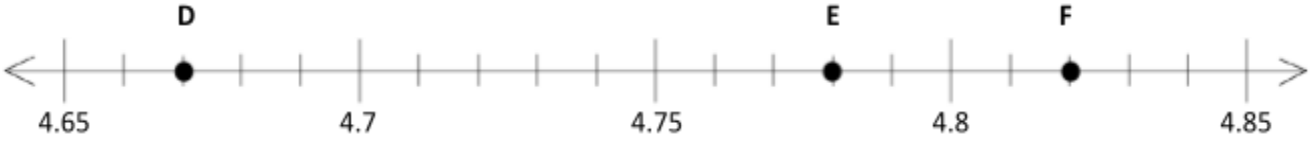


b. $\frac{16}{10} =$ _____



2. Several points are plotted on the number lines below. Identify the decimal number associated with each point.

A. _____ **B.** _____ **C.** _____



D. _____ **E.** _____ **F.** _____

3. Complete the chart.

Point	Decimal Form	Mixed Number (ones and fraction form)	Expanded Form in decimal form	How much to get to the next whole number?
a.		$7\frac{23}{100}$		
b.	45.4			

4. Use the symbols >, =, or < to compare the following. If you need, justify your conclusions using pictures, numbers, or words.

a. 0.06 ◯ 0.66

b. 0.2 ◯ 0.20

c. 13 tenths ◯ 1.3

d. 1.07 ◯ $1\frac{7}{10}$

e. 0.25 ◯ $\frac{25}{10}$

f. 2.08 ◯ $2\frac{8}{100}$

g. 8 tenths + 9 hundredths ◯ 7 tenths + 18 hundredths

5. Solve.

a. Express your solution as a **fraction** of a meter. 0.8 m + 2.51 m

b. Express your solution as a **fraction** of a liter. 1.7 L + 0.82 L

6. Solve. Write your final answer as a **decimal**.

a. $\frac{5}{10} + \frac{6}{100} =$

b. $4\frac{3}{10} + 6\frac{61}{100} =$

c. $\frac{7}{10} + 0.84 =$

d. $14.6 + 9.89 =$

7. Answer the following questions about a track meet.

a. Jim and Joe ran in a relay race. Jim had a time of 6.5 seconds. Joe had a time of 11.72 seconds. Together, how long did it take them to complete the race? Record your answer as a **decimal**.

Jim = _____

Joe = _____

Together = _____

8. At the concession stand, Marta buys 2 hot dogs, 3 bottles of water, and 2 bags of chips. What is the total cost?

Total for hot dogs = _____

Total for bottles of water = _____

Total for chips = _____

Total cost = _____

Item	Cost
Hot Dog	$ 2.49
Bottle of Water	$ 1.25
Chips	$ 0.75

9. Find the total amount of money in **decimal** form.

a) 6 dollars, 3 quarters, 15 dimes, 8 nickels, 48 pennies.

Dollars = _____

Quarters = _____

Dimes = _____

Nickels = _____

Pennies = _____

Total = _____

b) 4 dollars, 5 quarters, 12 dimes, 11 nickels, 62 pennies.

Dollars = _____

Quarters = _____

Dimes = _____

Nickels = _____

Pennies = _____

Total = _____

10. Place these numbers in order from least to greatest AND greatest to least

6.06, 6.6, 0.06, 0.60, 6.66

Name:	Date:
Eureka Math - 4th Grade	Final Assessment (Study Guide)

1. Fill in the blanks to make the statements true.
   a. 60 is 10 times as much as _____.

2. Follow these Steps:
   a. Complete the place value chart in **words**
   b. Show the number 697,634 on the chart

	Hundred Thousand					ones

   c. What number is in the hundreds place? _____
   d. What is the value of the 3? _____

3. Place the commas in the appropriate places on the number below:

63478951

4. Round to the nearest thousand

   638,247 ≈ _____

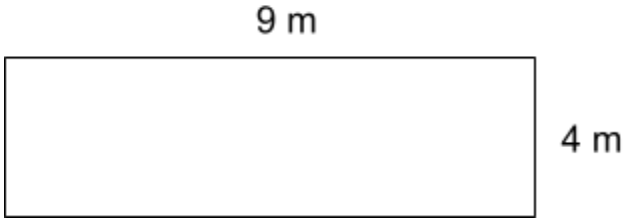
5. Solve

a. 3,721 + 658 =	b. 4,967 – 871 =

6. Solve these conversions:
   a. 7 L 20 mL = _____mL

   b. 361 km 27 m - 24 km 341 m = _____km _____m

7. Find the area and the perimeter of the rectangle.



   a. Area = _____ sq m

   b. Perimeter = _____ m

8. Solve below using: 3 x 8 = 24

   a. 30 x 80 = _____

   b. 30 x _____ = 24,000

9. Multiply

a. 35 x 71	b. 8 x 129

10. Identify each number as PRIME or COMPOSITE. Then list all its factors.

Number	Prime OR Composite?	List the Factors:
18		
19		

11. Divide. Check your work. Circle your final answer.

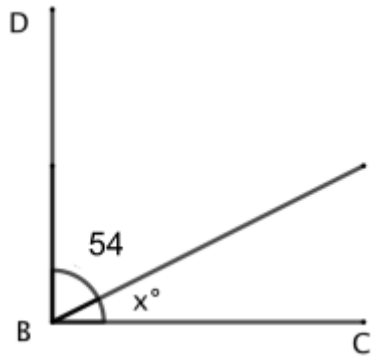
a. 354 ÷ 9	b. 281 ÷ 3

12. Draw each of the following figures:

Line	Line Segment	Ray	Point

13. Solve for x.

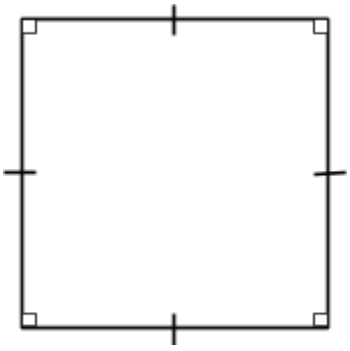
$\angle DBC$ is a right angle.



_____ + _____ = 90°

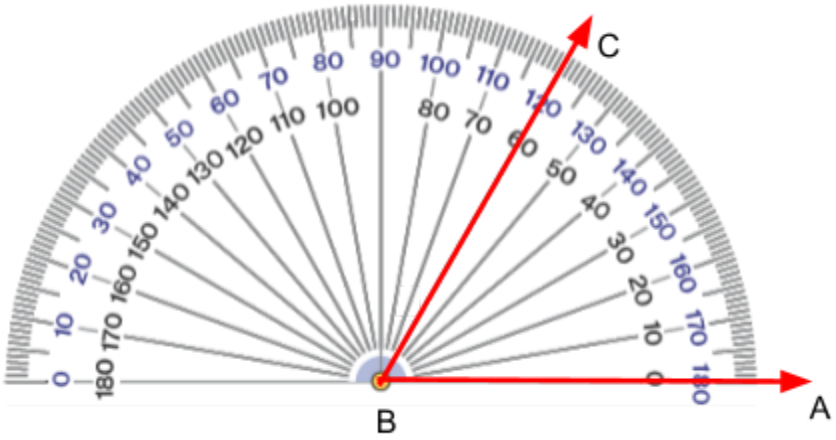
x° = _____

14. Find and draw all lines of symmetry for the following figure. Write the number of lines of symmetry that you found underneath the shape.

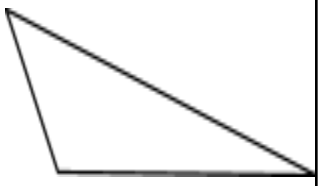
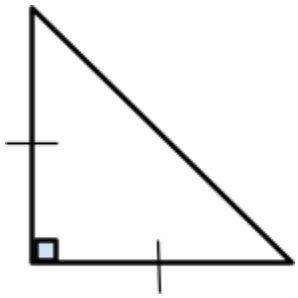
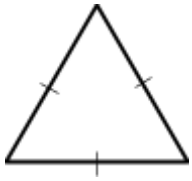


_____

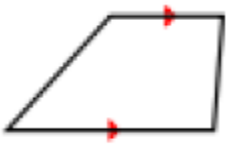
15. What is the measurement for ∠ ABC



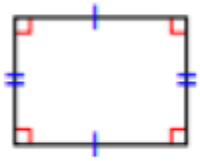
16. Classify each triangle by its side lengths and angle measurements. Circle the correct names.

	Classify Using Side Lengths	Classify Using Angles
	Equilateral Isosceles Scalene	Right Obtuse Acute
	Equilateral Isosceles Scalene	Right Obtuse Acute
	Equilateral Isosceles Scalene	Right Obtuse Acute

17. Identify the quadrilaterals.

a. 

_____

b. 

_____

18. Use division to simplify the fraction given below. Draw a model if that helps you.

$$\frac{6}{18}$$

19. Compare these fractions. Use <, >, or =. (Use whatever strategy works best)

a. $\frac{8}{9}$ ◯ $\frac{9}{10}$

b. $\frac{3}{5}$ ◯ $\frac{4}{10}$

20. Solve. If the final answer is greater than 1 whole, record it as a mixed number.

a. $4\frac{6}{7} + 3\frac{3}{7}$ =

b. $7 - 2\frac{4}{9}$

21. Multiply using the area model **or** distributive property

$4 \times 2\frac{5}{8}$

22. Rename the improper fraction as a mixed number.

$\frac{22}{8}$

23. Convert the mixed number to an improper fraction.

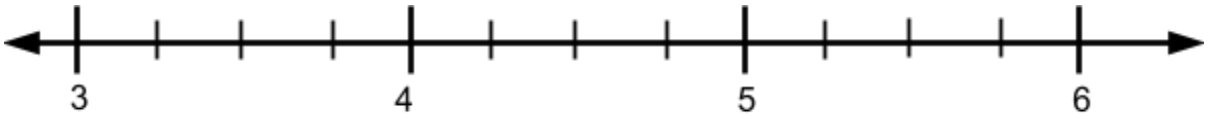
$3\frac{5}{9}$

The chart to the right shows the name and weight of some poodles.

Poodle	Weight (in pounds)
Fluffy	$4\frac{2}{4}$
Sparky	$5\frac{3}{8}$
Mimi	$3\frac{1}{4}$
Poppy	$4\frac{5}{8}$
Rufus	$5\frac{1}{8}$

25. Use the data to create a line plot

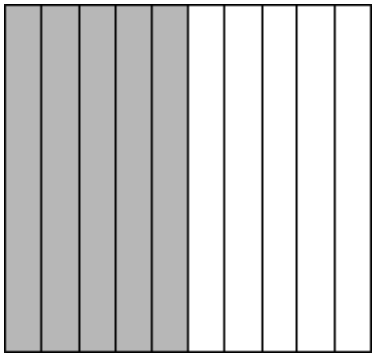
    a. Order the poodles' weight from **least to greatest** and from **greatest to least**



_____ < _____ < _____ < _____ < _____

_____ > _____ > _____ > _____ > _____

26. Write the decimal that represents the shaded amount of this rectangle.



_____

27. Complete the chart.

Decimal Form	**Mixed Number (ones and fraction form)**	**Expanded Form (fraction or decimal form)**
	$25\frac{3}{100}$	

28. Use the symbols <, >, or = to compare.

a. $\frac{38}{10}$ _____ 3.8

b. 4 ones and 5 tenths _____ $4\frac{50}{10}$

29. Solve

a. 7.96 + 6.1	b. 9.47 - 3.57

30. Find the total amount of money in **decimal** form.

5 dollars, 5 quarters, 17 dimes, 84 pennies.

Dollars = _____

Quarters = _____

Dimes = _____

Pennies = _____

Total = _____

Find the following sums and differences. Show your work.

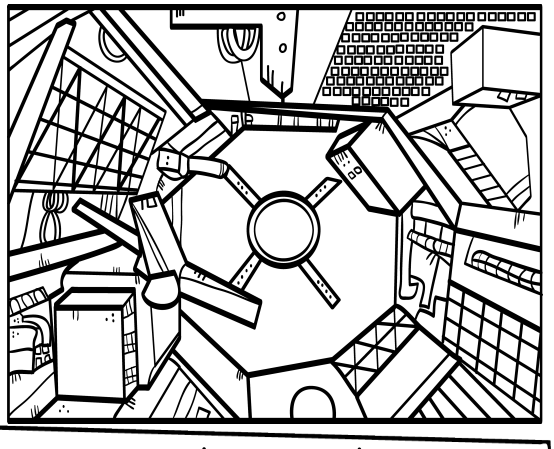
• 1 gal = 4 qts • 1 qt = 2 pts • 1 pt = 2 c	• 1 day = 24 hrs • 1 hr = 60 min • 1 min = 60 sec

31. Solve using the conversion charts above.
    a. 8 gal 3 pt + 3 gal 3 pt = _____ gal _____ qt

    b. 5 hr 9 sec – 3 hr 72 min 56 sec = _____ hr _____ min _____ sec

Name: _____

Narrative Writing Graphic Organizer



I am writing about this event or topic:

_____

_____

_____

The main setting: _____

The main season: _____

The main character:

Name: _____

Their main character trait is:

_____

A supporting character:

_____

The point of view is told in: _____

The main events, in order, for my story:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Transitional words bank:

not only, also, in addition, just like, sometimes, other times, most important, at night, during the day, after, last, next, finally, by the time, when I arrived, all of a sudden

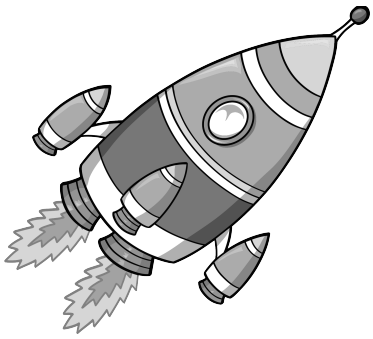
My conclusion sentence:

_____

_____

_____

Name: _____

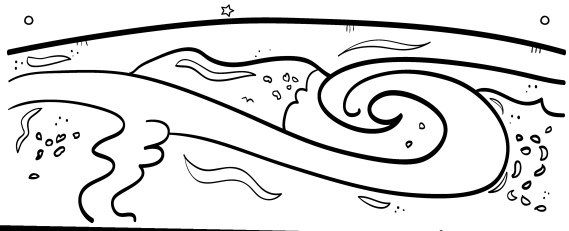


Narrative Writing

You are on a field trip with your class at an astronaut training base. You and a friend crawl into an old rocket when no one is looking. All of a sudden, it takes off! Write a story about what happens next.

Name: _____

Opinion Writing Graphic Organizer

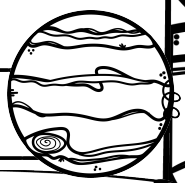


Topic Question: _____

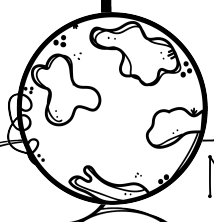
_____

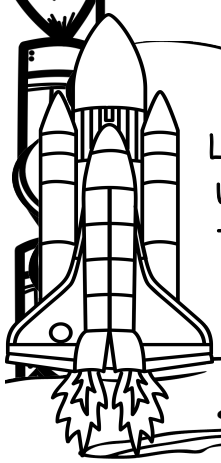
My Opinion: _____

_____



Reason 1:	Reason 2:	Reason 3:
Facts and details that support reason 1:	Facts and details that support reason 2:	Facts and details that support reason 3:





Linking words that I might use:

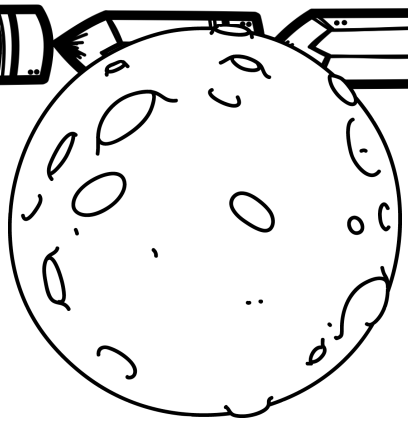
My conclusion statement that summarizes my opinion:

_____

_____

_____

Name: _____



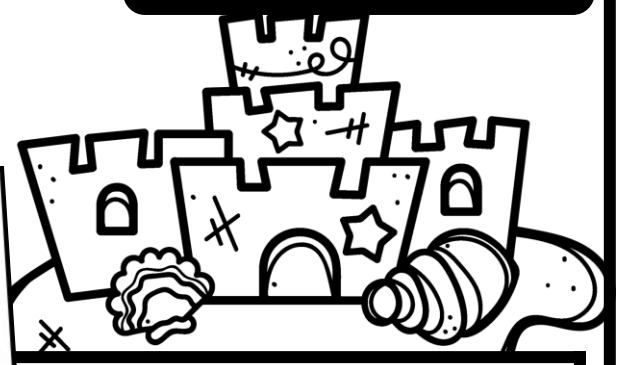
Opinion Writing

Which would be more fun to explore: the International Space Station or the surface of the Earth's Moon?

Name: _____

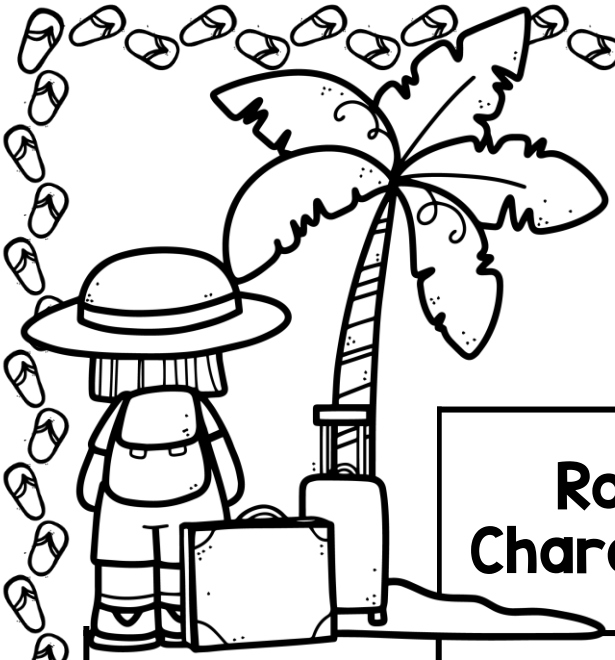
HOW-TO WRITING SUMMER PROMPTS

HOW-TO



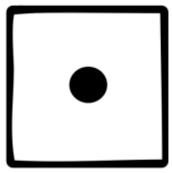
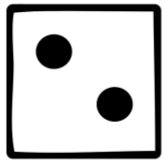
How to Build a Sandcastle

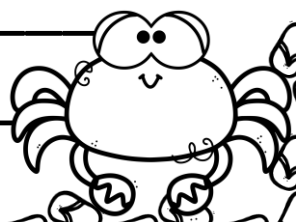
Write detailed steps for creating a sandcastle, from gathering tools to decorating the finished product.

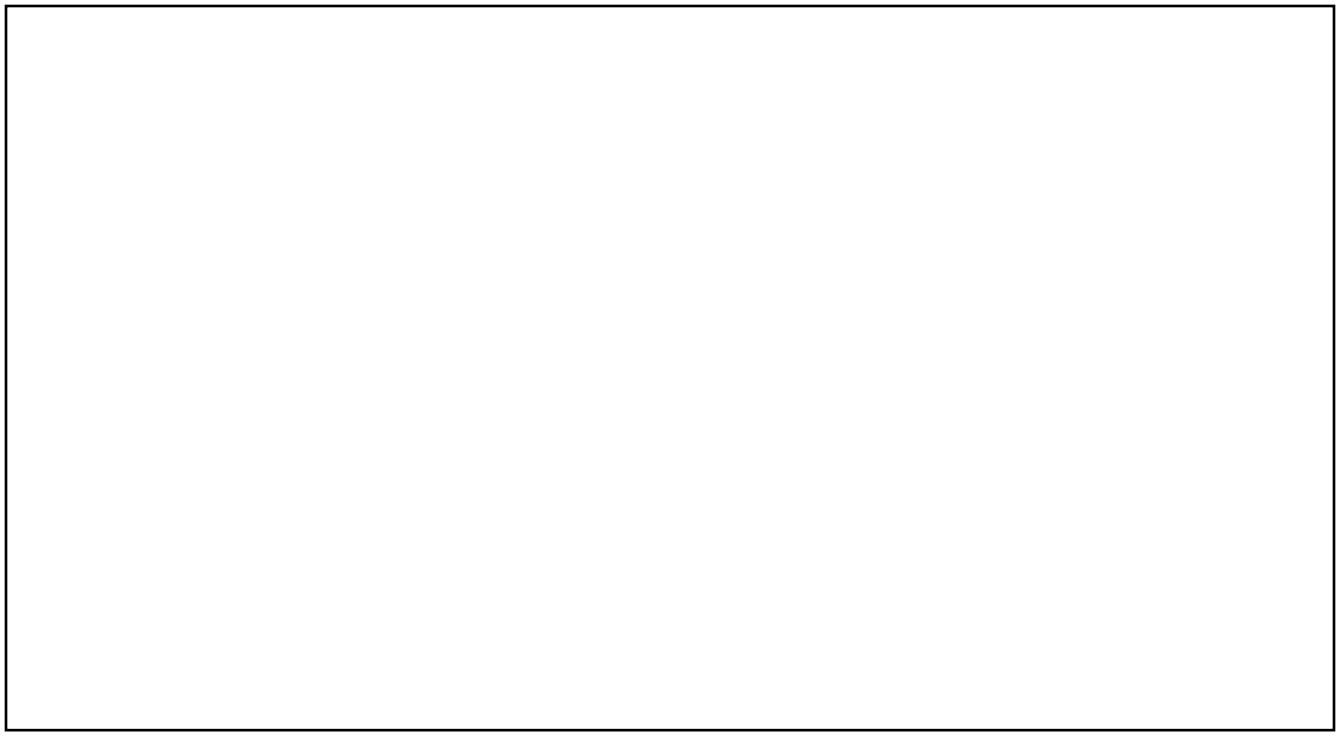


SUMMER

Roll – a - story

	Roll 1 Character	Roll 2 Setting	Roll 3 Plot
	Surfer	At a surfing competition at the beach	A surfer disappears in the water at a surfing competition & goes back in time
	Mermaid	Deep in the ocean	A mermaid is granted a birthday wish that will last one week
	Brother & Sister	At an old lighthouse on the beach	A brother & sister move to a new town & find an abandoned lighthouse people say is haunted
	A family	At an amusement park	A family enters a contest at an amusement park to win a million dollars
	A Crab	In a magical sandcastle	A crab crawls into a sandcastle at the beach & discovers it is magical
	Neighborhood friends	In a treehouse in their neighborhood	Four neighborhood friends build a treehouse that can teleport them





NAME: _____ DATE: _____

#1

The summer solstice occurs on the longest day of the year, which, in the Northern Hemisphere, is around June 21. It marks the start of summer!

Many people around the world celebrate the summer solstice. In Sweden, some people celebrate by eating the season's first strawberries.

How does your culture or community celebrate the summer solstice? Do you have any special traditions? Write a paragraph explaining your typical solstice celebration.

If you do not normally celebrate the solstice, write about how you would like to celebrate. What would be a good way to start off the summer?

NAME: _____ DATE: _____

#2

The summer solstice marks the longest day of the year, or the day with the most hours of sunlight.

Depending on where you are in the world, this could mean anywhere from 12 to 24 hours of sunlight.

Imagine a day with 24 hours of sunlight – where the night never comes! Write a story about what you would do with your 24 hour day.

Include details about where you would go, what you would do, and who you would spend your time with.

NAME: _____ DATE: _____

#3

Even though the summer solstice has the most hours of sunlight, the earliest sunrise actually occurs in the days before the summer solstice.

Sunrises are often considered beautiful and peaceful to observe. This photo shows the sunrise over Mt. Fuji in Japan.

If you could watch the sunrise from anywhere in the world, where would you go? Why? Who would you like to watch the sunrise with?

NAME: _____ DATE: _____

#4

Our seasons on Earth last approximately 3 months each. On the planet Uranus, seasons last 21 <u>years</u> each!

Imagine Earth's seasons lasted 21 years. Spring began before you were born, but the seasons are changing, and you are about to experience your first summer ever! Only older generations, like your great-grandparents, know what summer is like.

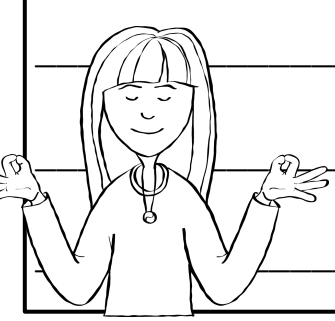
Describe what summer looks, feels, sounds and smells like as you experience it for the first time. What are you most surprised by? What are you most excited about?

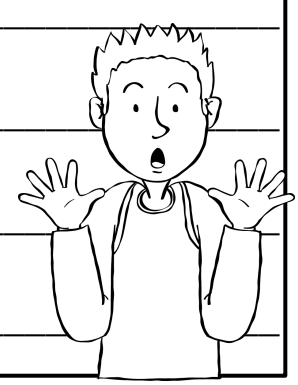
Day 1: Journal Entry

Day 1

Respond to the following journal prompt.

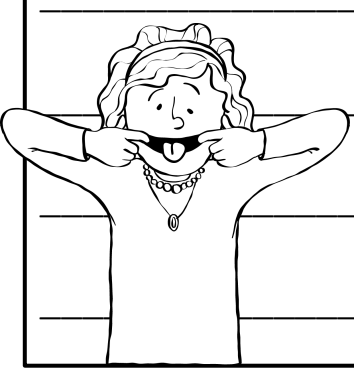
Reflect on the school year that just ended. What was the most unexpected thing that happened? What was your involvement in this unexpected event? How did you feel about it? How did your teacher, family, friends, or community members feel about it? Is there anything related to this incident or situation that you wish you could do differently? If so, what? Would you consider this unexpected experience a positive one or a negative one? Why?





Day 1: Journal Entry

Day 1



Day 2: Story Starter

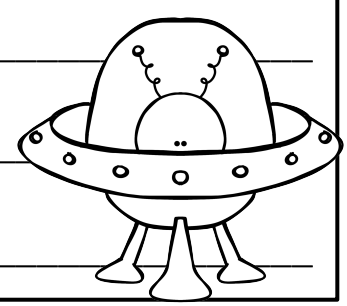
Day 2

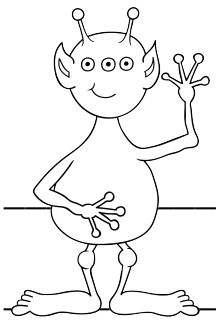
Read the following story starter. Complete the story using first person point of view (using pronouns such as *I, me, my,* etc.). Share with a friend or family member.

I couldn't fall asleep. The dreams were so vivid. Could UFOs truly be real? I mean, I suppose creatures could live on other planets. Who knows, maybe they call us aliens too?

CLICK! With one blink, the most intense light I'd ever seen broke through the cracks around my closed door. Blinding light. Could it be the scorching sun?

SQUEEEEEEAK! My eyeballs zeroed in on the doorknob. With a turn of the knob, a gasp, and sheer terror, I saw it!





Day 2: Story Starter

Day 2

Day 3: Biography

Day 3

Got a favorite SUMMER OLYMPIAN? If not, choose a summer Olympic sport. Do you enjoy basketball, hockey, rugby, cycling, golf, swimming, diving, or tennis?

Choose from **dozens** of summer Olympic sports. Then pick an athlete who has competed in that sport in the Olympic games. Use reputable sources (such as Wikipedia or printed nonfiction text) to find information about this person. Take notes on the table below. Finally, write a three paragraph biography about the person you chose.

- 1st paragraph: Include information about the beginning of this person's life (birthplace, birthdate, the early years, etc.).
- 2nd paragraph: Include information about this person's middle years.
- 3rd paragraph: Include information about the last part of this person's life (or present day, if this person is still living).

Olympian: _____ **Sport**: _____

Birthdate: _____

Place of Birth: _____

Date of Death: _____

Significant events from the early years:

_____

_____

_____

_____ is an important historical figure because _____

_____

_____

_____

_____

_____

Faced these obstacles:

Interesting Facts:

Day 3: Biography

Day 3