

Cohen Middle School  
100 Robinwood Avenue  
Elmira Heights, NY 14903  
734-5078

Name: \_\_\_\_\_ Date: October 31, 2019

Math:

Reflections Mod 3 lesson 16

Notes pp 43-44 homework wksh

Social Studies:

\_ Geography of Egypt

HW: Gift of the Nile

ELA:

Daily Warm Up  
Ind Practice - Adjectives/Adverbs  
1st Read - I Was a Skinny  
Lambchop Kid

Science

See attached Instructions  
to finish  
Designing, scoring, planning  
and building w/ your peer

Computer Apps/ Technology



Name: \_\_\_\_\_

Period: \_\_\_\_\_

### THE GIFT OF THE NILE

Like a giant snake, the Nile River slithers through some of the driest desert land on earth to create a narrow green valley. The ancient Greeks called this land Egypt. For more than five thousand years, famous and often mysterious civilizations thrived along the banks of the Nile. About 450BC, a Greek historian named Herodotus called Egypt the "Gift of the Nile" because the Egyptian civilization depended on the resources of the great river.

Every spring, the snow on the mountains of East Africa melted, sending a torrent of water that overflowed the banks of the Nile and flooded the river valley. The rushing river picked up bits of soil and plant life called silt. As the annual flood receded, a strip of black topsoil emerged every year along the banks of the Nile. The silt was rich in nutrients, and it provided the people of Egypt with two or three crops every year.

The Nile made it possible for the people of ancient Egypt to form the first nation in history. A nation may refer to a community of people who share a common language, culture, ethnic background or history. The land beyond the Nile River Valley is the Sahara Desert. A desert is land that receives less than ten inches of rain in a typical year. Since it is nearly impossible to

grow much food in the desert, few people lived far from the banks of the Nile. Giant boulders blocked the Nile and formed a natural border at the southern Egyptian city of Aswan. The Nile

flows into the vast Mediterranean Sea, which formed Egypt's border to the north. Egypt's isolation led to its unification. People living along the banks of the Nile spoke the same language and worshipped many of the same gods more than five thousand years ago.

The Nile no longer overflows its banks because modern Egyptians built a huge dam in Aswan. Since 1970, the Aswan High Dam has held back the water that annually flooded the banks of the Nile River. The dam also provides a reliable flow of water for Egyptian farmers in the dry season. The people of Egypt are now able to convert the predictable flow of the Nile into electricity. The Aswan High Dam initially provided electricity to more than half of the villages along the Nile. The population of Egypt has grown since then, but the Aswan High Dam still contributes about fifteen percent

of Egypt's electricity. Unlike oil, the flowing water is renewable, which means that the river will not run out. Ancient and modern civilizations have relied on the mighty river, proving that Egypt truly is the "Gift of the Nile."



### Map Skills

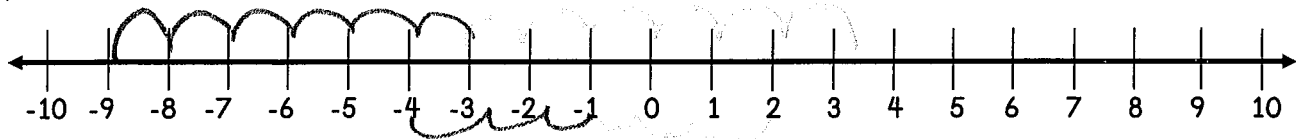
1. The Nile River Delta is a rich farming area where the Nile spreads out before draining into the Mediterranean Sea. The Delta is shaped like a triangle, which reminded the Greeks of a letter in their alphabet called delta. ( $\Delta$ ) Please write the word **DELTA** in the correct location.
2. We know the Nile flows into the Mediterranean Sea. In what direction does the Nile flow along most of its course? Circle the correct answer: **NORTH SOUTH EAST WEST**

\*This is a higher order learning question. You must answer the question to the best of your ability, but any reasonable answer will be graded as correct.

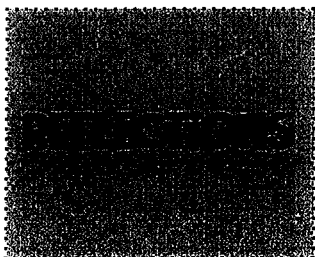


# REFLECTIONS

Use the number line below to determine the answers in the table.



OPPOSITE OF 6	-6	OPPOSITE OF -5	5
THE TWO NUMBERS 3 AWAY FROM -1	-4, 2	NEITHER POSITIVE NOR NEGATIVE	0
OPPOSITE OF 2	-2	THE TWO NUMBERS 6 AWAY FROM -3	-9, 3



- A reflection flips a figure over a line of reflection in order to create a mirror image.
- Each reflected point of the figure should be the same distance from the line of reflection on the opposite side.

Highlight and identify the line of reflection in the following examples.

<p>1.</p> <p>line of reflection: <u>y-axis</u></p>	<p>2.</p> <p>line of reflection: <u>x-axis</u></p>	<p>3.</p> <p>line of reflection: <u>y-axis</u></p>
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4.

line of reflection: x-axis

original image: Quadrant I

new image: Quadrant IV

What do you notice?

X and y coordinates stayed the same. Y coord. changed to opposite.

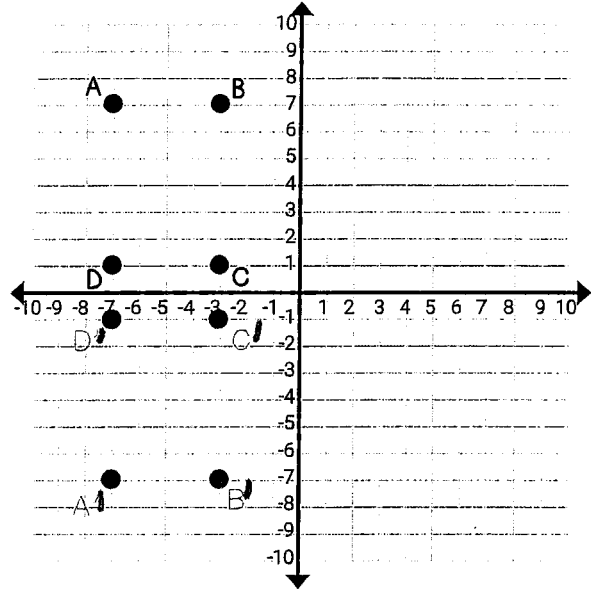


A reflection of an original shape or point is noted with an apostrophe.  
 It reads "A prime."

5. Reflect the image over the x-axis. Record the coordinates of the original image and new image.

ORIGINAL	
<b>A</b>	(-7,7)
<b>B</b>	(-3,7)
<b>C</b>	(-3,1)
<b>D</b>	(-7,1)

NEW IMAGE	
<b>A'</b>	(-7,-7)
<b>B'</b>	(-3,-7)
<b>C'</b>	(-3,-1)
<b>D'</b>	(-7,-1)



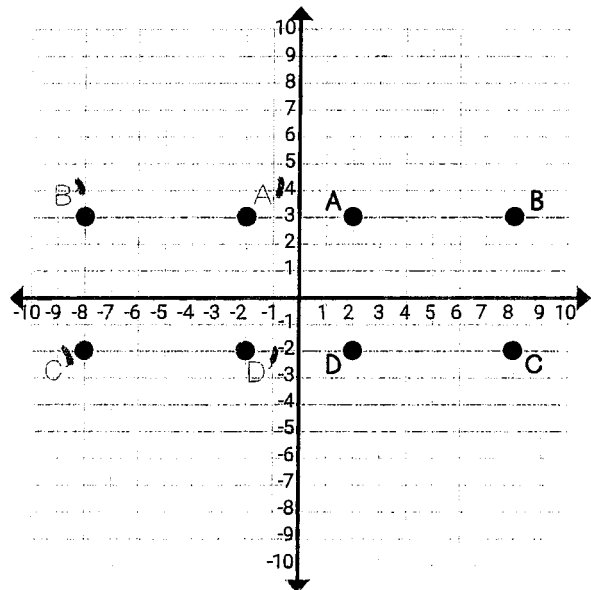
What observations can you make about the original and new image coordinates?

The y-values all became their opposite and  
 the x-values stayed the same.

6. Reflect the image over the y-axis. Record the coordinates of the original image and new image.

ORIGINAL	
<b>A</b>	(2,3)
<b>B</b>	(8,3)
<b>C</b>	(8,-2)
<b>D</b>	(2,-2)

NEW IMAGE	
<b>A'</b>	(-2,3)
<b>B'</b>	(-8,3)
<b>C'</b>	(-8,-2)
<b>D'</b>	(-2,-2)



What observations can you make about the original and new image coordinates?

The x-values all became their opposite  
 and the y-values stayed the same.

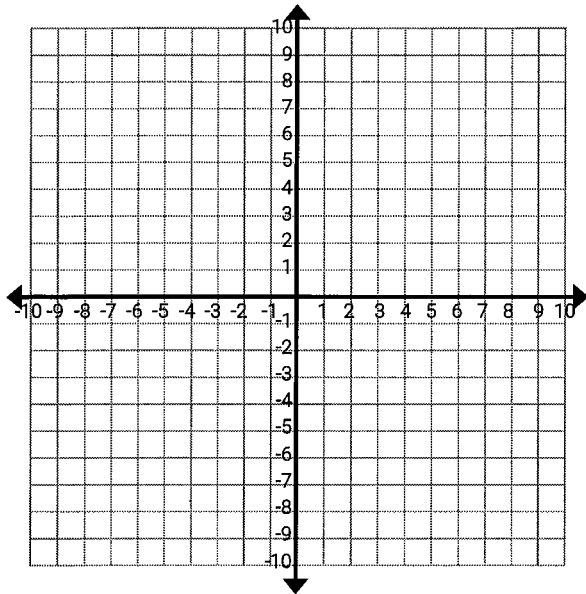
Summarize today's lesson:





# REFLECTIONS

Answer the following questions. Be sure to explain your thinking.



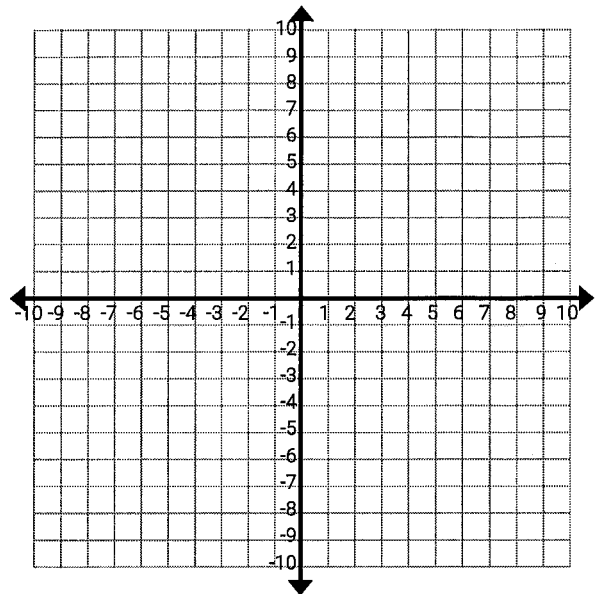
1. Reflect the following points across the x-axis and record their new location. Sketch the reflections on the graph above.

a.  $G(6, 5) \rightarrow$  \_\_\_\_\_

a.  $K(9, -3) \rightarrow$  \_\_\_\_\_

a.  $R(-3, 8) \rightarrow$  \_\_\_\_\_

a.  $P(-1, -3) \rightarrow$  \_\_\_\_\_



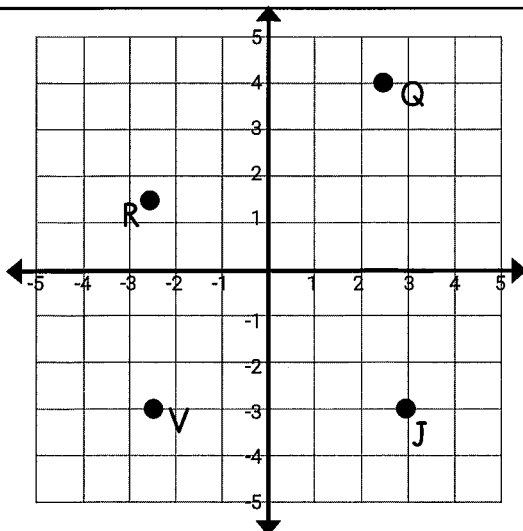
2. Reflect the following points across the y-axis and record their new location. Sketch the reflections on the graph above.

a.  $B(-8, 3) \rightarrow$  \_\_\_\_\_

a.  $E(-3, -3) \rightarrow$  \_\_\_\_\_

a.  $S(2, 7) \rightarrow$  \_\_\_\_\_

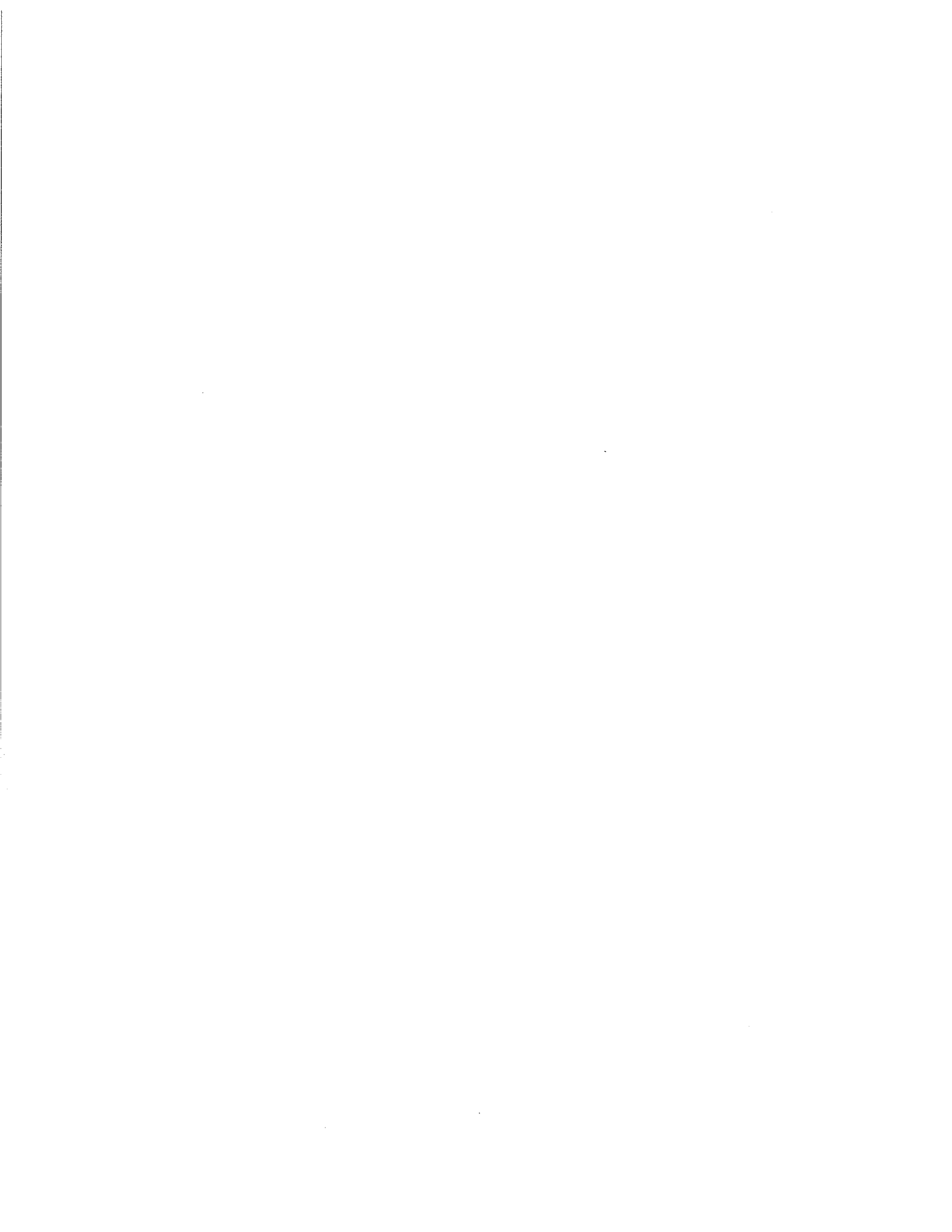
a.  $T(5, 4) \rightarrow$  \_\_\_\_\_



3. Point Q is reflected to quadrant IV. Over which axis was point Q reflected?

4. The ordered pair  $(-3, -3)$  represents the reflection of which point over which axis?

5. Point R is reflected to quadrant I. Over which axis was point R reflected?



- ① Finish Drawing ONE (Partnered) Boat Design
- ② Score your own design (Scorecard attached)
- ③ Calculate your team budget (attach add amount of your two tickets/scorecards, multiply by 5. This is your Team budget
  - a) must purchase cup
  - b) can only make 2 trips to store, including the re-design stage (Monday)
  - c) must purchase an "entry fee"
  - d) Fines apply
- ④ Build your boat (Finish building first 10-15 minutes Friday)
- ⑤ Friday be prepared to test passengers.
- ⑥ Monday - Redesign / ReTest



# Science 6 Independent

Name: \_\_\_\_\_

Date: 10/30/19 Period: 2 3 5 6 7

Partner(s): \_\_\_\_\_

Scorecard: **STEP 6**

**STEP 6- Sketch-Ideas for Model**

Read the  
that you

**Imagine Plan Communicate**

NB **STEP 6** I have included:

- At least three independent sketches

Score Step 6  
Yes-2 No-0

My **team plan** (graph paper) includes:

- Names
- Top view sketch
- Side view sketch
- All materials labeled
- All dimensions included
- Creative / neat
- Good communication

Yes-2 No-0

Yes-2 No-0

Yes-2 No-0

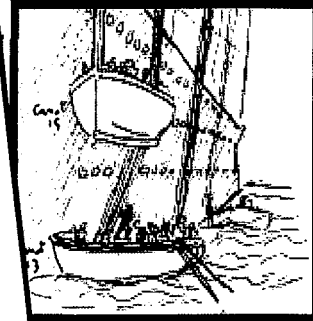
3 2 1 0

3 2 1 0

3 2 1 0

3 2 1 0

TOTAL \_\_\_\_\_ /20



This is your portion of  
the budget (x5)



Names \_\_\_\_\_

## Titanic Lifeboat Order Form (1 Per Team)

<b>Team Name:</b>					
<b>Starting Budget</b>	\$0.00				
<b>Material:</b>	<b>Cost</b>	<b>Quantity</b>	<b>Total</b>	Trip #1	Trip #2
<b>Styrofoam Cup</b>	\$ 25.00		\$ -		
<b>Gray/ Black Wax cup</b>	\$ 25.00		\$ -		
Regular Wax Cup	\$ 15.00		\$ -		
15 x 30 aluminum foil	\$ 20.00		\$ -		
Super Jumbo Striped Straw (limit 2)	\$ 10.00		\$ -		
Craft Sticks, set of 2 (Limit 3 sets)	\$ 10.00		\$ -		
1 index card	\$ 10.00		\$ -		
String, 10 cm (limit 50.0cm)	\$ 10.00		\$ -		
Duct Tape, 30.0cm (Limit 3, total)	\$ 15.00		\$ -		
			\$ -		
Miscellaneous Materials	\$ 20.00		\$ -		
			\$ -		
		<b>Total Order</b>	\$ -		
		<b>Balance</b>	\$0.00		
<b>Penalties, Fines, and Fees</b>		<b>Quantity</b>	<b>Total</b>		
Clean up/mess left/ lost documents	\$ 25.00		\$ -		
Arguing or whining (per person)	\$ 20.00		\$ -		
Mis-management of materials/waste	\$ 25.00		\$ -		
Not doing job/interrupting (per member)	\$ 20.00		\$ -		
Delivery Charge	\$ 25.00		\$ -		
Import Taxes & Fees	\$ 60.00		\$ -		
<b>Boat Test Entry Fee</b> (must submit design)	\$ 20.00		\$ -		
		<b>Total Penalties</b>	\$ -		
You must have at least \$5 left to enter		<b>Grand Total</b>	\$0.00		

