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SEABREEZE MATH IN THE PARK

**The Mathematics of Fun: Hands-on Learning Program
New York State 4th Grade Math Program**

**Program Aligned with Common Core Standards
Developed by Elementary Educators from
Durand-Eastman Intermediate School - East Irondequoit, NY**



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Rochester NY

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Name _____ Date _____

School _____ Teacher _____



Seabreeze School Stop Math in the Park: Grade 4

Directions: In order to complete this activity you will need to stop at the locations indicated at the beginning of the problem. At these spots you will need to collect some **data** to solve the problems. These problem can be completed individually or with your Seabreeze group. Some problems will require math tools. Tools will be located near the attraction indicated at the beginning of the problem. When completed, return this packet to your teacher.

Reminders:

- **You can complete the stations in any order.**
- You must walk in the park. No running.
- Please complete all activities independently or with your group; chaperones can help, but students must do the work.
- Have fun and enjoy your day at Seabreeze Park.

Jack Rabbit

(CCLS 4.MD.1)



****You will need a tape measure to complete this problem.**

Did you know that there is a height requirement to ride the Jack Rabbit? The requirement is not by age, but by height. In order to ride the Jack Rabbit, you must be 4 feet tall.

Complete the following using a tape measure:

- Measure yourself in inches: _____
- Convert your height into feet and inches ____ feet ____ inches

Using the data you collected, answer the following:

1. Are you able to ride the Jack Rabbit? _____
2. If you are not tall enough to ride, how many more inches do you need to grow in order to ride? _____ inches

Music Express:

(CCLS 4.MD.2)

**** You will need a stopwatch or timer for this question. Your chaperone or teacher can use the stopwatch function on their cell phone for this question.**

Your group is visiting Seabreeze Park for one day. There are so many ways to spend your day; it can be hard to choose what to do first. Each ride you go on takes time out of your day. The Music Express is a popular ride that most kids ride more than once. Have you ever wondered how much time you will spend on a ride in one day?

- Go to the **Music Express**.
- Using a stopwatch, time the ride to the nearest second (start the time as soon as the ride begins and stop when it ends).

Time: _____ **minutes** _____ **seconds**

1. If you were going to ride the Music Express 5 times today, how much time would you have spent on this ride? Your answer must be in minutes and seconds.

Show your work:

Answer: _____ **minutes** _____ **seconds**

Use this page to show your work.

Pizza Stand

(CCLS 4.OA.2, 4.OA.3)



One of the best parts of going to Seabreeze is eating the wonderful food!
The next problem will require a visit to the Pizza Stand!

Data collection:

- **Fill out the chart using the number of adults and kids in your Seabreeze group.**

Number of kids in your group:	_____ kids
Number of adults in your group:	_____ adults

- **Complete this chart using the information for a LARGE pizza.**

Slices in a large pizza:	_____ slices
Cost of a large pizza:	\$ _____

(Go on to the next page)

Using your data, answer the following questions:

1. For your trip, each **kid** gets 2 slices of pizza and each **adult** gets 3 slices. There are 8 slices in a large pizza. How many total pizza pies will your group have to order for everyone to get their food? Will you have any leftover slices?

Show your work:



Answer: _____ Total pizza pies to order

_____ slices leftover

(Go on to the next page)

2. Your group has \$25.00. Is there enough money to buy pizzas for your entire group?

Show your work:

Explain your answer:

Arcade

(CCLS 4.NBT.4,4.OA.3)



The Arcade is a popular place to play a variety of games. Many games give tickets based on point totals that can be traded in for prizes. A well known game is Skee-ball. When playing Skee-ball you have to roll balls into different holes and collect points. For every 25 points you score in Skee-ball you are awarded 3 tickets.

Answer the following questions using the Skee-ball information.

1. You scored 800 points. How many tickets will you receive?

Show your work.

_____ tickets

Name _____ Date _____



Seabreeze Math in the Classroom

Directions: Complete the following questions. Be sure to show all work if indicated.

1. The attendance for Seabreeze Park in 2011 was 95,236 and 96,652 in 2012. Did Seabreeze have more attendance in 2011 or 2012?

Use the symbols $<$, $>$, $=$ to write a comparison statement.

Answer _____

2. Sara, Jesse, Juan and Omar all played arcade games for the afternoon. Sara won 1,678 tickets, Jesse won 1,706 tickets, Juan won 1,332 and Omar won 993. Who won the greatest amount of tickets?

- A. Sara
- B. Jesse
- C. Juan
- D. Omar

3. July is the busiest month for Seabreeze. On Friday, 3,299 people attended the park. On Saturday, 4,678 people attended the park and 2,273 on Sunday. What was the total attendance for the park that weekend?
- A. 10,050
B. 10,250
C. 9,250
D. 12,250
4. The Screamin' Eagle is a very popular ride. On a busy day all seats on the ride are filled. The ride has 8 rows and can seat a maximum of 3 people in each row. How many total people can ride the Screamin' Eagle at one time?

Answer _____

5. During lunch, the Seabreeze Grill is one of the busiest food stands. The line is often wrapped around the corner. On Saturday, the Seabreeze Grill sold 9,500 hot dogs. On Sunday, the Grill sold 4,380 hot dogs. How many more hot dogs were sold on Saturday than Sunday?
- A. 5,120
B. 13,880
C. 5,580
D. 14,880



6. Seabreeze ordered 60,000 pieces of candy for the Candy Crane in the arcade. In June, the game gave away 13,406 pieces of candy. In July they gave away 23,679 pieces of candy. How much candy is left to give away in August?

- A. 46,594
- B. 36,321
- C. 37,085
- D. 22,915

7. You are 57th in line for the Bumper Cars. If the ride loads 15 people every 4 minutes, how many rounds of the ride will you have to wait until you get on the Bumper Cars?

- A. 2
- B. 3
- C. 4
- D. 5

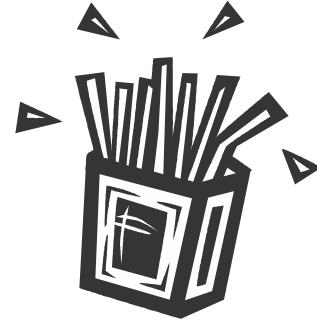


8. There are 20 students in your class. $\frac{1}{5}$ of the kids in your class want to go on the Revolution 360°. How many students are going on the Revolution 360°?

- A. 15
- B. 5
- C. 4
- D. 25

9. $\frac{2}{10}$ of Mr. Hall's class ordered French Fries for lunch. Express $\frac{2}{10}$ as a decimal.

- A. .02
- B. .002
- C. 2.0
- D. .20



10. In Ralph's class, $\frac{3}{10}$ of the kids rode the Whirlwind and $\frac{4}{10}$ rode the Bobsleds. Write an expression comparing the kids who went on the Whirlwind to those on the Bobsleds.

Use $<$, $>$, $=$ in your answer.

11. Your car on the Tilt-A-Whirl turned 50° then it turned 210° more. How many more degrees does it have to turn to make a full circle?

- A. 50°
- B. 100°
- C. 260°
- D. 160°

12. On a hot summer day, there is no better place to cool off than the Wave Pool. The Wave Pool is rectangular and has a length of 50 ft. The width of the Wave Pool is half the length. What is the perimeter of the Wave Pool?

A. 100 ft.

B. 25 ft.

C. 1,250 ft.

D. 150 ft.

13. Willie and Xavier are trying to win a large stuffed animal. They need 4,500 Seabreeze Arcade tickets to get the animal. Willie has 1,390 tickets and Xavier has 2,500 tickets. If they combine their tickets, how many more do they need in order to get the animal?

Show your work.

_____ Tickets

14. Use the chart below to solve the problem:

Seabreeze School Groups Admission Prices

Students	\$19
Hotdog lunch	Additional \$5
Chicken sandwich lunch	Additional \$7

A. Mrs. Sander's class has 20 students. There are 4 students who have Seabreeze Passports that they can use to get into the park. If all 20 students are going to the park, how much money does Mrs. Sanders need to collect for admission?

Show your work.

B. For lunch, 6 students are ordering hotdogs and 8 students are ordering chicken sandwiches. How much money did Mrs. Sander's class spend on lunch?

C. What is the total amount of money Mrs. Sanders has to pay for admission and lunch for her entire class?

Use this page to show your work.