

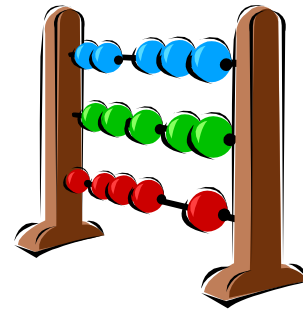
IDLEWILD AND SOAKZONE PRESENTS



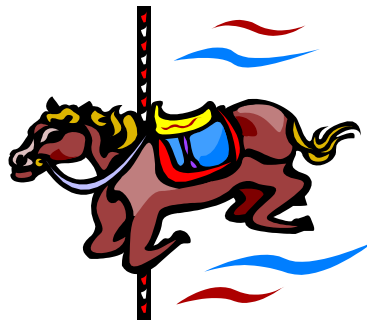
RIDES & 'RITHMETIC

IDLEWILD & SOAKZONE

RIDES & 'RITHMETIC



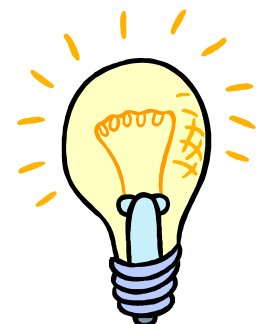
- Idlewild & SoakZone's first season of operation was 1878.
 - How old is it? _____
 - How many operating seasons? _____



1. The Merry-Go-Round is the centerpiece of the main park. Built by the Philadelphia Toboggan Company, it has been at Idlewild & SoakZone since 1931. Some horses move up and down on brass poles. Some are stationary.
 - It has _____ carved wooden horses?
 - How many horses move up and down? _____
 - How many are stationary? _____

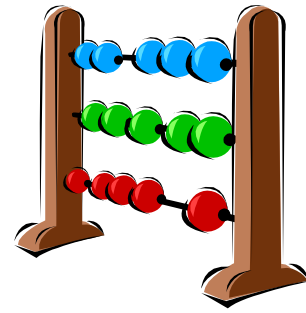
The building which covers the Merry-Go-Round has 8 sides. Count the light bulbs on one side.

- How many light bulbs on 2 sides? _____
- How many light bulbs on 4 sides? _____
- How many light bulbs on 8 sides? _____



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3. The Ferris Wheel, built by Eli Bridge Company, has 16 cars.

- With 2 people in each car, how many can ride at one time? _____
- The Wheel is 50' in diameter. How many inches? _____
- Observe the wheel operating. Can you figure out how it is loaded to keep it balanced? _____



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4. Idlewild's Round-Up can accommodate 42 passengers. Find the average number per ride by watching 3 ride cycles.

- 1st ride = _____
- 2nd ride = _____
- 3rd ride = _____

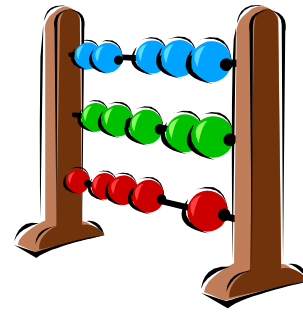
- Average number per ride cycle: _____

- If the total time for each person to ride is 3 minutes how many people can ride in an hour? (Round your answer to the nearest hundred.) _____



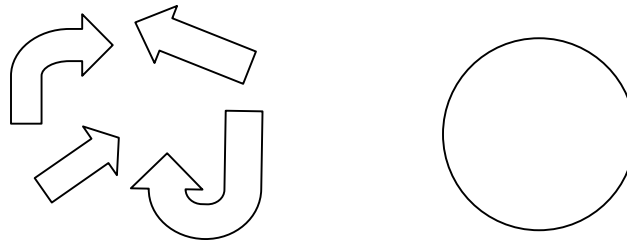
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5. Built by the Eli Bridge Company, the Scrambler has 12 seats. A maximum of 36 passengers may ride.

- How many riders can be in each car? _____
- Observe the ride in operation. When a seat passes the center point, it is moving about 25 mph. Can you then figure out the pattern in which the cars move?



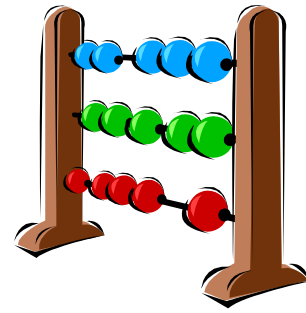
- Following only one car with your eyes, draw points on the circle above to represent points at which the car is closest to the outer edge of the operating circle.

6. The Tilt-o-Whirl has 7 cars. Each car can carry a maximum of 800 lbs.

- What is the maximum weight of each rider if there are 4 riders in each car?

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7. The Howler, built by the Wisdom Rides Company of Merino Colorado, has 8 cars with 4 seats on each car. The ride spins counter clockwise, but cars can go in either direction.

- How many total seats? _____

Count the light bulbs on one of the “Howler” Logo panels at the top of the ride...

- How many light bulbs on (1) panel? _____
- How many light bulbs on (2) panels? _____
- How many light bulbs on all (8)panels? _____



8. The Rollo Coaster, listed by American Coaster Enthusiasts as a classic wooden coaster, has 3 cars per train, 4 riders per car.

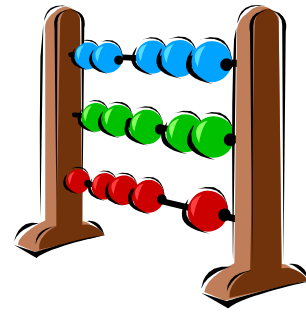
- How many can ride at one time? _____

Using the number of people in your class...

- How many people will be left in line after the first ride cycle? _____
- How many ride cycles will the Rollo Coaster run for everyone to get one ride? _____

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9. What's wrong with these signs?



Park Hours
10 p.m. to 9 a.m.
daily

Pretzels
\$2.00

3 for \$7.00

10. How much would these items cost?

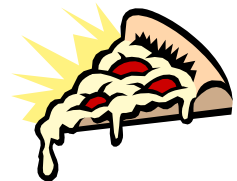
- slice of pizza \$1.75
 - frozen lemonade \$2.00
 - banana split \$2.70
- (tax included in prices)



- Now, round your answer to the nearest dollar _____

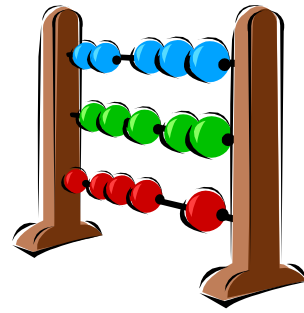
11. You and 3 friends want to share an 8 slice pizza equally.

- Write the fraction which represents the portion each person will eat.



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12. You have \$15.00 to spend at Idlewild & SoakZone.

➤ Which combination of the following items can you buy?

a. 1 popcorn for \$1.50; 1 sweatshirt for \$10.95;
1 souvenir for \$3.00.

b. 1 tee-shirt for \$8.95; 1 pretzel for \$2.00;
2 lbs. of fudge for \$1.90 per lb.

c. 1 whole pizza for \$13.95; 3 games for \$1.50.

\$

\$

\$

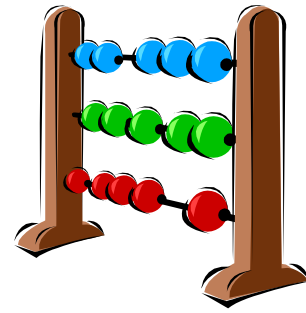
13. A group of 315 people reserved a picnic pavilion. Only 210 people actually attended the picnic.

➤ Write the fraction that tells what portion of people did not attend.

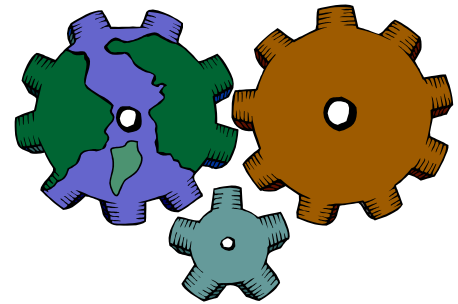


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BONUS!!!



***** Most rides have three operating components.

- What are they?
(Hint: Power supply)

***** Amusement rides make use of 4 basic principles of machines.

- How many can you name? _____
