

Round 1- Question 1

An object weighing 5 pounds on Earth will weigh 2 pounds on Mercury. The Statue of Liberty weighs 225 tons. What would it weigh on Mercury?

School Code

Answer

Round 2 – Question 1

The age of a man is the same as his wife's age with the digits reversed. The sum of their ages is 99 and the man is 9 years older than his wife. What is the product of their ages?

School Code

Answer

Round 1 – Question 2

The average of 5 weights is 13 grams. This set of five weights is then increased by another weight of 7 grams. What is the average of the six weights?

School Code

Answer

Round 2 – Question 2

In three bowling games, Alice scores 139, 143, and 144. What score does Alice need in a fourth game in order to have an average score of 145 for all four games?

School Code

Answer

Round 1- Question 3

What number in the “start” box will yield the result of 40?



School Code

Answer

Round 2 – Question 3

A kangaroo chases a rabbit which starts 150 ft. ahead of the kangaroo. For every 12 foot leap of the kangaroo, the rabbit makes a 7 foot leap. How many leaps will the kangaroo have to make to catch up to the rabbit?

School Code

Answer

Round 1- Question 4

Groups of campers were going to an island. On the first day 10 went over and 2 came back. On the second day, 12 went over and 3 came back. If this pattern continues, how many would be on the island at the end of a week?

School Code

Answer

Round 2 – Question 4

Conrad's Taxi Service charges \$4.50 for the first mile and \$.90 for each additional mile. How far could Mr. Smith go for \$25 if he gives the driver a \$2.50 tip?

School Code

Answer

Round 1- Question 5

At a baby shower, we started discussing baby statistics. One of the women told us she had heard a report that for every 100 babies born, there were 6 more boys than girls. If we were to randomly pick a child from a representative group, what is the probability of picking a girl?

School Code

Answer

Round 2 – Question 5

A farmer grows 196 pounds of potatoes. He sells them to a grocer who divides them into 5 pound and 2 pound bags. If the grocer uses the same number of 5 pound and 2 pound bags, how many bags of each did he use?

School Code

Answer

Round 1- Question 6

You are pulling a raft up a river. You can make 15 miles a day. At night, while you are asleep, however, the current pushes the raft 3 miles back downstream. If you set out on Tuesday to get to a town 85 miles upstream, on which day will you arrive?

School Code

Answer

Round 2 – Question 6

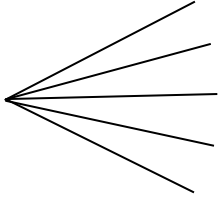
Mrs. Winthrop went to a store, spent half of her money and then \$10 more. She went to a second store, spent half of her remaining money and then \$10 more. But she then had no money left. How much money did she have to begin with when she went to the first store?

School Code

Answer

Round 1- Question 7

An acute angle is an angle whose measure is between 0 and 90 degrees. Using the rays in the diagram, how many different acute angles can be formed?

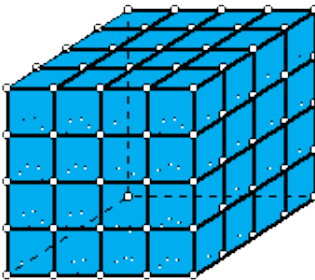


School Code

Answer

Round 2 – Question 7

The complete outside including the bottom of a wooden 4 inch cube is painted blue. The painted cube is then cut into 1 inch cubes. How many of the 1 inch cubes do not have blue paint on any face?



School Code

Answer

Round 1- Question 8

If you fold a square paper vertically, the new rectangle has a perimeter of 39 inches. What is the area of the original square?



School Code



Answer

Round 2 – Question 8

Oblong numbers can be represented by rectangular arrays in which the number of dots in each row is one more than the number of dots in each column. The first 3 oblong numbers—2, 6, and 12—are represented below. How many dots are needed to represent the tenth oblong number?

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**          ***          ****
           ***          ****
                   ****
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School Code



Answer

Tiebreaker #1

The last Friday of a particular month is on the 25th day of the month.
What day of the week is the first day of this month?

School Code

Answer

Tiebreaker #2

If today is Tuesday, what day of the week will it be 100 days from now?

School Code

Answer

Tiebreaker #3

In a math contest of 10 problems, 5 points were given for each correct answer and 2 points were deducted for each incorrect answer. If Nancy answered all 10 problems and scored 29 points, how many correct answers did she have?

School Code

Answer

Tiebreaker #4

Multiply: 65.72×1.824

School Code

Answer

2012 Cipherring Answers:

Round #1

1. 90
2. 12
3. 11
4. 77
5. .47
6. Monday
7. 10
8. 169

Round #2

1. 2430
2. 154
3. 30
4. 21
5. 28
6. 60
7. 8
8. 110

Tie Breaker #1 Tuesday

Tie Breaker #2 Thursday

Tie Breaker #3 7

Tie Breaker #4 119.87328