

Round 1 - 2009

Question #1

Suppose you have 2 quarters, 5 dimes, and 10 nickels. How many ways can you make change for \$.50.

School Code

Answer

Round 2

Question #1

Jan has \$1.38 in her pocket. What is the minimum number of coins she could have?

School Code

Answer

Round 1

Question #2

A carpet is on sale for \$12.60 a square yard. What is the price per square foot for this carpeting?

School Code

Answer

Round 2

Question #2

Tom is using small square tiles which measure 1 inch on each side to cover the top of a table. If the table measures 2 feet by 1 foot, how many tiles will he need?

School Code

Answer

Round 1

Question #3

Six days after the day before yesterday is Monday. What day is it today?

School Code

Answer

Round 2

Question #3

Mrs. Brown, Mrs. Black, and Mrs. Green have brown, black, and green raincoats. "None of our coats matches our names," says Mrs. Green. "You're right!" says the lady in the brown coat. Who has which coat?

School Code

Answer

Round 1

Question #4

Brian started the marathon race at 8:30 am and finished the race 2 hours and 33 minutes later. What time was it when Brian crossed the finish line?

School Code

Answer

Round 2

Question #4

"Sunrise is at 7:15 today and sunset is at 4:48" said the meteorologist on TV. How many hours and minutes are there from sunrise to sunset?

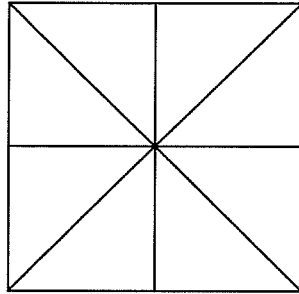
School Code

Answer

Round 1

Question #5

How many triangles are there in this picture?



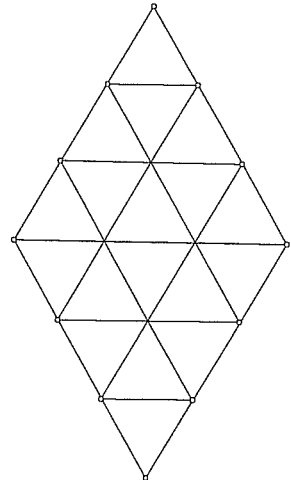
School Code

Answer

Round 2

Question #5

How many different equilateral triangles can be found in the figure?



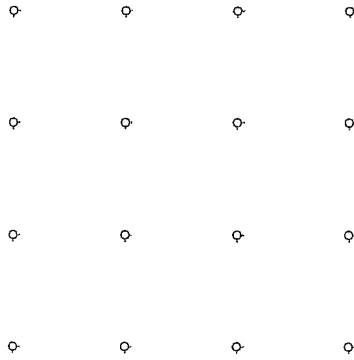
School Code

Answer

Round 1

Question #6

How many different size squares can you make by connecting dots in the figure?

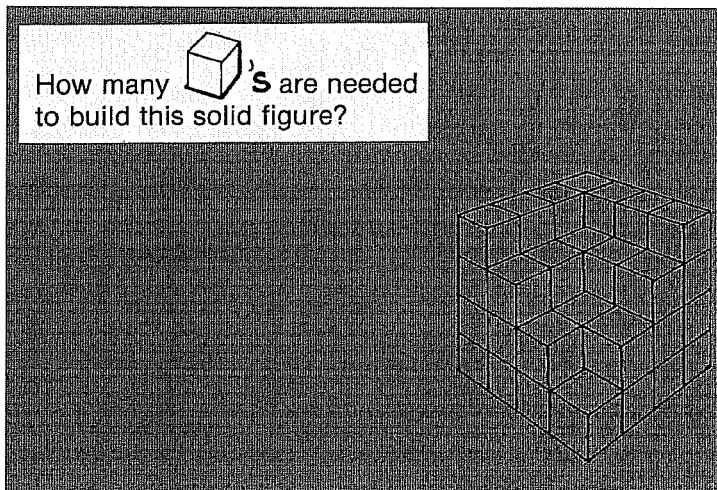


School Code

Answer

Round 2

Question #6



School Code

Answer

Round 1

Question #7

Jordan bought a CD for \$5. He sold it for \$10, and then bought it back for \$15. Finally, he sold it for \$20. Did Jordan make money, lose money, or break even? If he made or lost money, how much did he make or lose?

School Code

Answer

Round 2

Question #7

Cal earned \$14. He gave \$4 to Ray and half of what was left to Len. How much money did Cal keep?

School Code

Answer

Round 1

Question #8

Jon drove an average of 250 miles a day for three days. He drove 400 miles on the first day and 125 miles on the second day. How many miles did he drive on the third day?

School Code

Answer

Round 2

Question #8

Sara jogged 5 blocks the first day. She increased her distance 3 blocks every day. On the last day, she jogged 35 blocks. How many days did she jog?

School Code

Answer

Round 1

Practice Question

Jack earned \$15. He bought a burger for \$2 and fries for \$1. How much money does he have left?

School Code

Answer

Round 2

Practice Question

Jill had seven posters. She gave Tom 3 of the posters and bought 4 additional posters. How many posters does Jill have now?

School Code

Answer

Tie Breaker #1

Perry said he is thinking of a number that is as much greater than 36 as it is less than 94. What is Perry's number?

School Code

Answer

Tiebreaker #2

How does the area of a parallelogram compare with the area of a triangle if both figures have the same height and base?

School Code

Answer

Tiebreaker #3

What is the circumference of the largest circle you can draw using a piece of chalk attached to the end of a 20 inch string?

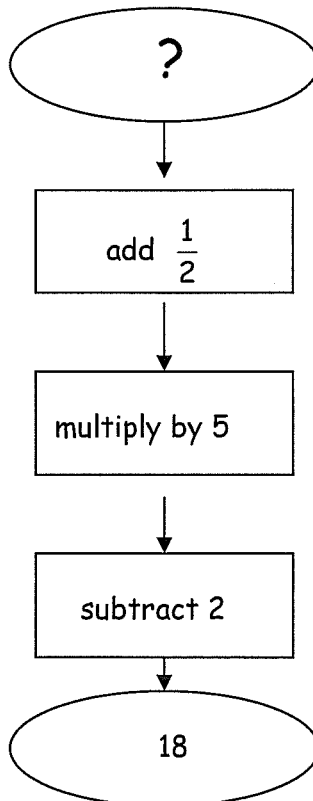
School Code

Answer

Tiebreaker #4

School Code

Answer



2009

Solutions to Ciphering Questions

Round 1

- 1) 10
- 2) \$1.40 per square foot
- 3) Thursday
- 4) 11:03
- 5) 16
- 6) 4
- 7) \$10
- 8) 225 miles

Round 2

- 1) 9
- 2) 288 tiles
- 3) black
- 4) 9:33
- 5) 28
- 6) 50
- 7) \$5
- 8) 11 days