

**2025 Penny Sikes
Math Tournament
Ciphering Questions**

Round 1 - Practice Question

What is the product of 49 ones?

School Code

Answer

Round 1 - Question 1

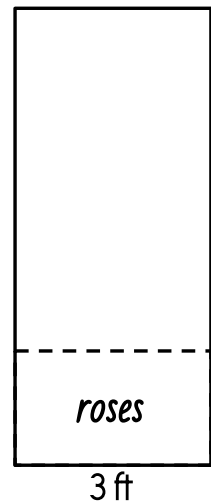
You have a list of 7 numbers. The average of the numbers is 9. If you take away one of the numbers, the average of the numbers is 8. What number did you take away?

School Code

Answer

Round 2 - Question 1

Josie filled $\frac{1}{4}$ of her garden with rose bushes. The remaining 36 ft^2 is filled with mums. If the width of the garden is 3ft, what is the length? (See figure at right)



School Code

Answer

Round 1 - Question 2

Of the displayed coins, I pick up one coin on heads and one coin on tails. What is the greatest possible value of the remaining coins in dollars?



School Code

Answer

Round 2 - Question 2

How many numbers greater than 1 and less than 100 give a remainder of 1 when divided by 5?

School Code

Answer

Round 1 - Question 3

My pet worm, Boogie, can travel 6 inches in one minute. If he keeps a steady pace, how many feet would he travel in 3 hours?

School Code

Answer

Round 2 - Question 3

Identify the number described below:

- It is a two-digit number.
- The sum of the digits is 13.
- The tens digit is greater than the ones digit.
- Neither digit is a multiple of 4.

School Code

Answer

Round 1 - Question 4

If A & B are integers where $10 < A < 20$ and $21 < B \leq 24$, what is the difference between the lowest and highest possible values of $(A+B)$?

School Code

Answer

Round 2 - Question 4

My brother is half as old as I am. My sister is twice as old as I am. The sum of our ages is 35. How old am I?

School Code

Answer

Round 1 - Question 5

Jack, Susan, and Carla went strawberry picking. Jack ate some strawberries. Susan ate four fewer strawberries than Jack. Carla ate five more strawberries than Susan. Carla ate 8 strawberries. How many strawberries did they eat all together?

School Code

Answer

Round 2 - Question 5

My password contains 2018 characters and every letter of the alphabet appears at least once. The letter A appears at most ? times.

School Code

Answer

Round 1 - Question 6

My teacher had 7 more students this year than he had last year. If he had a total of 43 students in both years combined, how many students did he have this year?

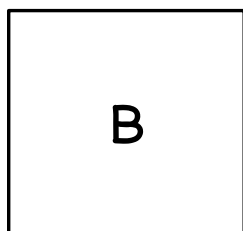
School Code

Answer

Round 2 - Question 6

The side of square B is 4 times the length of a side of square A. How many times greater is the area of square B than the area of square A?

A



B

School Code

Answer

Round 1 - Question 7

Each day for a month, Sully wakes up 5 minutes earlier than he did the day before. If Sully woke up at 6:50 AM on a Monday, on what day did he wake up at 6:05 AM?

School Code

Answer

Round 2 - Question 7

One-fourth of Ed's balloons popped, with 2 balloons popping every 3 minutes for an hour. How many balloons did not pop?

School Code

Answer

Round 1 - Question 8

What is the product of the prime numbers between 15 and 25?

School Code

Answer

Round 2 - Question 8

I added 3 of the numbers 11111, 22222, 33333, 44444, 55555, 66666, 77777, 88888, and 99999. My sum was one of these 9 numbers. When my sum was divided by 11, what is the lowest possible remainder?

School Code

Answer

Round 1 Answers

1. 15
2. \$0.65
3. 90 ft or 90
4. 10
5. 18
6. 25
7. Wednesday, Wed, or W
8. 7429

Practice: 1

Round 2 Answers

1. 16 ft or 16
2. 19
3. 76
4. 10
5. 1993
6. 16
7. 120
8. 6