

Answer key

Relay Round 1

Names:
 P1 P2
 3 7

Team Number:

Final Answer: 6

Relay Round 2

Names:
 P1 P2
 30 40

Team Number:

Final Answer: 2

Relay Round 3

Names:
 P1 P2
 18 6

Team Number:

Final Answer: 48

Relay Round 4

Names:
 P1 P2
 13 19

Team Number:

Final Answer: 105

- 1.1 A ball is completely submerged in a full tank of water, and 36π cubic centimeters of water come out. What is the radius of the ball?
- 1.2 The maximum number of pieces of a circular pie I can make by cutting it $BATON + 1$ times in straight lines.
- 1.3 Find the number of prime numbers less than $2 * BATON$.
- 2.1 The number of ways to rearrange the letters in QUEUE.
- 2.2 Sandra is filling a $BATON$ -gallon pool of water at 1 gallon per minute. Unbeknownst to her, someone has poked a hole at the bottom of the pool which is leaking water at .25 gallons a minute. How many minutes will it take to fill the pool completely?
- 2.3 $BATON$ apples are in 7 baskets. Each basket can either hold 5 or 6 apples. Find the number of 5-apple baskets.
- 3.1 In 9 years, Emilija will be 50% older than Amelia. Right now, Emilija is two times as old as Amelia. How old is Emilija?
- 3.2 The number of positive, fully simplified fractions less than one with denominator $BATON$.
- 3.3 Compute $((BATON + 4) * 2 - 7) * 3 + 9$
- 4.1 The closest integer to $\sqrt{175}$.
- 4.2 The largest possible median of 5 different positive integers with mean $BATON$.
- 4.3 Kathy writes the numbers 1 through $3 * BATON$. How many digits does she write?