

Math League Game 4: Answers

TEAM QUESTIONS:

1. 2010
2. $b = -3, c = -14$
3. 3

FULL SOLUTION QUESTIONS:

1. The last number must be odd
2. Oyle is 8 years old (the quadratic is $7(x - 2)(x - 8)$)
3. 17 points (the scores were 19, 17, 11, 11, 2)
4. $(x, y, z) = (33, 56, 65)$

GROUP QUESTIONS:

1. 12
2. $\frac{2005}{4008}$
3. 11011, 12221
4. 90°
5. $-1, 0, 1, 3$
6. 133, 333, 533, 333
7. $4\sqrt{3}$
8. $\frac{99}{1999}, \frac{56}{1234}, \frac{43}{765}$
9. $(2, 3), (3, 2), (1, -6), (-6, 1)$
10. 199

RELAY 1:

- (A) 1
- (B) 6
- (C) 96
- (D) 8

RELAY 2:

- (A) 20
- (B) 13
- (C) 5
- (D) 6

TIEBREAKER:

Answer: 6909