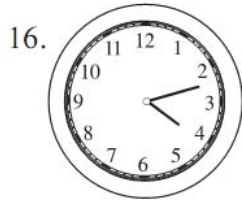


Mathcounts Competition

Competition consists of 4 rounds (problems presented below come from 2007 test).

Sprint Round 30 questions in 40 minutes. Round tests accuracy. Calculators not permitted.



On a standard clock, how many degrees does the minute hand rotate during the time period from 4:12 pm to 4:48 pm of the same day?

16. _____ degrees

Target Round Eight multi-step problems. Problems given in pairs and 6 minutes are permitted to solve the pair. Calculators needed.

4. What is the positive difference between the sum of the first 20 positive multiples of 5 and the sum of the first 20 positive, even integers?

4. _____

Team round 10 problems in 20 minutes. Team members work together! Calculators needed.

3. Louisa and Darya each rolled three balls toward lines that are 1, 2 and 3 meters away. A person's point total is determined by squaring the distance between each ball and the line it lands closest to and then adding the three squares together. The lowest score wins. Louisa's balls rolled 0.9, 2.2 and 2.7 meters, while Darya's rolled 1.2, 1.8 and 2.8 meters. By how many points did Darya win? Express your answer as a decimal to the nearest hundredth.

3. _____ points

Countdown Round Top-scoring individuals face off in one-on-one competition with buzzers.

6. A catalogue sells pencils two ways: (1) 50 cents each and (2) \$2 per pack of 12. What is the least expensive purchase price for exactly 30 pencils?

6. _____