Problems
The Sprint Round of the MATHCOUNTS Chapter Competition has 30 questions and students are
given 40 minutes to complete the round. Though it isn’t expected that most students will finish
all 40 questions, what is the average time a student can spend on each of the 30 questions, in
minutes:seconds per question?

Some chapters will hold a Countdown Round for the highest-scoring 25% of the students at the
competition or the top 10 students at the competition, whichever is fewer students. What is
the greatest number of students at a competition for which “25% of the students (to the
nearest whole number)” is fewer students than “the top 10 students?”

MATHCOUNTS competitions are very different from tests students take in class. For a
MATHCOUNTS competition, a score of 23 out of 46 (or 50%) is absolutely fantastic! The Target
Round of a MATHCOUNTS competition has four pairs of problems. If we’re told that a student
answered exactly half of the Target Round questions correctly, and answered one question in
each of the pairs of questions correctly, how many different combinations of questions could
she have answered correctly? (One combination is questions #1, 3, 5 and 7.)