

26. If Marlon the mailman had sunny weather on exactly 12 of 30 days last month, on what percent of days was the weather not sunny?

A) 36% B) 40% C) 60% D) 64%

27. Last month I spent \$24 on magnets that cost 80¢ each, and this month I spent \$24 on magnets that cost \$1.20 each. The average cost per magnet was

A) \$0.92 B) \$0.96 C) \$1.00 D) \$1.04

28. On a number line, $\frac{7}{2}$ is the same distance from 1.75 as it is from 7.25.

A) 2.75 B) 3.25 C) 3.75 D) 4.5

29. $2^5 \times 3^4 \times 4^3 \times 6^7 \times 9^{10} =$

A) $2^{15} \times 3^{21}$ B) $2^{20} \times 3^{31}$ C) $2^{15} \times 3^{40}$ D) $2^{105} \times 3^{280}$

30. In a garage, the ratio of red cars to black cars is 8:5, and the ratio of black cars to white cars is 3:4. The minimum number of cars in the garage is

A) 20 B) 59 C) 74 D) 91

31. The sum of 6 consecutive integers, the largest of which is 30, is equal to the sum of 10 consecutive integers, the largest of which is

A) 17 B) 18 C) 21 D) 26

32. If a radius of a circle whose area is $36\pi \text{ cm}^2$ equals the width of a rectangle, and the diameter of the circle is half the length of the rectangle, then the perimeter of the rectangle is

A) 60 cm B) 90 cm C) 144 cm D) 172 cm

33. I wrote a list of consecutive positive integers beginning with 1. I then removed all multiples of 4, and I had 2345 integers left. What was the largest integer on my list after the numbers were removed?

A) 3126 B) 3127 C) 3129 D) 3130

34. At the start of my temporary job, I needed to load an average of 120 boxes a day in order to finish my job on time. At first I loaded 90 boxes a day. I then had 6 days left to load the remaining 1200 boxes. How many days did I have in all for this temporary job?

A) 10 B) 16 C) 22 D) 26

35. Each day last week I counted 50% more leaves than I had counted the day before. If I counted 2430 leaves last Friday, how many had I counted the Sunday before that Friday?

A) 160 B) 240 C) 280 D) 320



The end of the contest 6



Sample 6th Grade Contest

Tuesday, February 26 (alternate date: February 19), 2013

6

Instructions

- **Time** Do not open this booklet until told by your teacher to begin. You might be unable to finish all 35 questions in the 30 minutes allowed.
- **Scores** Remember that this is a contest, not a test – there is no “passing” or “failing” score. Few students score 28 points (80% correct). Students with 14 points, *should be commended!* High-scoring students may be invited to our “Math Camp,” held last August at Stanford University.
- **Results Posted Online** Scores of high-scoring schools, both regional and overall, will be posted at www.mathleague.com no later than April 15.
- **Format, Point Value, & Eligibility** Every answer is an A, B, C, or D. Write answers in the *Answers* column. A correct answer is worth 1 point. Unanswered questions get no credit. You **may** use a calculator. You're eligible for this contest only if you are in grade 6 or below and only if you don't also take this year's Annual 7th or Annual 8th Grade Contest.

Please Print (To the student: You must complete all items below)

Last Name _____ First Name _____

School _____ Teacher _____ Grade Level _____

Time at Start of Contest _____ Today's Date _____

Do Not Write In The Space Below

To the Teacher:

Please enter the score at the right before you return this paper to the student. Papers with scores of 30 or higher must be held until June 1. Student's Score: _____

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5th Grade Math Contest

J Elliott



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