

## 2015-2016 6TH GRADE CONTEST

## Answers

26. Lex had 144 coins left after giving one-third of his coins to Clark and one-third of his remaining coins to Lois. How many coins did he give Lois?

A) 72    B) 48    C) 36    D) 32

27. The ones digit of the fourth power of an integer cannot be

A) 1    B) 3    C) 5    D) 6

28. Penelope paid \$24.58 for pens and pencils. If pens cost 9¢ each and pencils cost 4¢ each, at most how many pens did Penelope purchase?

A) 273    B) 272    C) 271    D) 270

29. My average score on 8 math tests is 90. If my average score on the first 5 tests was 87, what was my average score on the last 3 tests?

A) 96    B) 95    C) 94    D) 93

30. The cost of my algebra book is 200% of that of my geometry book.

The cost of my geometry book is  $\frac{4}{3}$  that of my calculus book. If my calculus book costs \$21, how much do all 3 books cost together?

A) \$28    B) \$56    C) \$84    D) \$105

31. Of the integers from 1 to 1000, how many are multiples of 3, 4, and 5?

A) 14    B) 15    C) 16    D) 17

32. If the sum of 9 consecutive odd integers is 1935, what is the sum of the next 9 consecutive odd integers?

A) 2015    B) 2017    C) 2097    D) 2099

33.  $3^{336} \times 9^{336} \times 27^{336} =$

A)  $3^{1008}$     B)  $3^{1344}$     C)  $3^{1680}$     D)  $3^{2016}$

34. Increasing the radius of a circle by 50% increases its area by ? %.

A) 50    B) 100    C) 125    D) 150

35. A person's initials are two letters in a specific order. If everyone has initials, what is the fewest number of people who must attend a party to be sure that three of the people will have the same initials?

A) 1353    B) 1352    C) 677    D) 676



26.

27.

28.

29.

30.

31.

32.

33.

34.

35.



## SIXTH GRADE MATHEMATICS CONTEST

Math League Press, P.O. Box 17, Tenafly, New Jersey 07670-0017

## 2015-2016 Annual 6th Grade Contest

Tuesday, February 16 or 23, 2016

6

## Instructions

- **Time** Do not open this booklet until you are told by your teacher to begin. You might be *unable* to finish all 35 questions in the 30 minutes allowed.
- **Scores** Please remember that *this is a contest, and not a test*—there is no “passing” or “failing” score. Few students score as high as 28 points (80% correct). Students with half that, 14 points, *should be commended!*
- **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.



The end of the contest 6

