

22. The product of my number and twice my number is 72. What is half my number?

- A) 3    B) 6    C) 12    D) 36

**Incredible!**



23. Mary got either a 90 or a 100 on each of her 5 math tests. The average of all her math tests is 98. How many 90s did she get?

- A) 1    B) 2    C) 3    D) 4

24. In the division  $(121\ 121\ 121\ 006) \div (11)$ , the remainder is

- A) 6    B) 5    C) 4    D) 3

25. The greatest common divisor of 60, 160, and 260 is

- A) 5    B) 6    C) 20    D) 60

26. The sum of 5 consecutive whole numbers is 2005. What is the sum of all the digits of these 5 numbers?

- A) 15    B) 25    C) 34    D) 43

27. If 3 splishes = 2 splashes, then 18 splashes = ? splishes.

- A) 12    B) 27    C) 36    D) 48



28. Of the 100 numbers 1, 2, 3, . . . , 100, how many are both 5 more than some number in the list and 5 less than some other number in the list?

- A) 89    B) 90    C) 91    D) 100

29. How many 2-digit whole numbers are multiples of both 6 and 9?

- A) 2    B) 3    C) 4    D) 5

30. If  $2+4+6+\dots+100 = 2550$ , then  $1+3+5+\dots+99 =$

- A) 2400    B) 2450    C) 2500    D) 2550

The end of the contest **5**

Visit our Web site at <http://www.mathleague.com>  
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**Sample 5th Grade Contest**

Spring, 2005

**Instructions**

**5**

- **Time** Do not open this booklet until you are told by your teacher to begin. You will have only 30 minutes working time for this contest. You might be unable to finish all 30 questions in the time allowed.
- **Scores** Please remember that *this is a contest, not a test*—and there is no “passing” or “failing” score. Few students score as high as 24 points (80% correct). Students with half that, 12 points, *should be commended!*
- **Format and Point Value** This is a multiple-choice contest. Each answer will be one of the capital letters A, B, C, or D. Write each answer in the Answer Column to the right of each question. We suggest (but do not require) that you use a pencil. Each question you answer correctly is worth 1 point. Unanswered questions receive no credit. You **may** use a calculator *unless* your school does not allow you to use one.

**Please Print**

Last Name \_\_\_\_\_ First Name \_\_\_\_\_

School \_\_\_\_\_ Teacher \_\_\_\_\_ Grade Level \_\_\_\_\_

**Do Not Write In The Space Below**

To the Teacher:

Please enter the student’s score at the right before you return this paper to the student. **Student’s Score:** \_\_\_\_\_

The school’s top scorer will receive the book *Math Contests—Grades 4,5,6 (Vol. 3)*. Other high scorers will receive Certificates of Merit. In any one school year, no student may win both a book and a certificate. The book and certificates were in the original contest package.

If needed, duplicate book awards may be ordered as described below.

Fifteen books of past contests, *Grades 4, 5, & 6 (Vols. 1, 2, 3, 4, 5)*, *Grades 7 & 8 (Vols. 1, 2, 3, 4, 5)*, and *High School (Vols. 1, 2, 3, 4, 5)*, are available, for \$12.95 per volume (\$15.95 Canadian), from Math League Press, P.O. Box 17, Tenafly, N.J. 07670-0017.

1.  $200 + 300 + 400 = 100 + 200 + 300 + ?$   
A) 100 B) 200 C) 300 D) 400

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2. To fill a big hole, I used 2 fewer than 2-dozen truckloads of dirt. I used ? truckloads of dirt.  
A) 10 B) 12 C) 20 D) 22

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3.  $27 \div 3 = 3 \times ?$   
A) 3 B) 6 C) 9 D) 27

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4. I threw 9 coins into the air. If twice as many coins landed heads up as landed tails up, how many coins landed heads up?  
A) 3 B) 4 C) 5 D) 6

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5. If you subtract 19 ones from 19 tens, the result is  
A) 1871 B) 342 C) 171 D) 9

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6.  $4 \times 8 \times 12 = 16 \times ?$   
A) 32 B) 24 C) 20 D) 16

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7. If my neck grows 5 cm every 10 days, it takes ? days for my neck to grow 50 cm.  
A) 5 B) 10 C) 25 D) 100

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8.  $(33 + 44 + 55 + 66) \div 11 =$   
A) 18 B) 11 C) 9 D) 7

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9. Of the following, which is divisible by 6?  
A) 166 B) 266 C) 366 D) 466

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10. Pete paid for 4 identical frozen pizzas with a \$20 bill. If Pete got \$3.60 in change, how much did one frozen pizza cost?  
A) \$4.10 B) \$5 C) \$6.25 D) \$9

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11.  $(48 \times 2) + (48 \times 3) + (48 \times 4) = 48 \times ?$   
A) 24 B) 9 C) 5 D) 3



12. (perimeter of my square)  $\div$  (sum of 2 side-lengths of my square) =  
A) 1 B) 2 C) 4 D) 8

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13. Tom is 12 years old. What is the average of his age 4 years ago and his age 6 years ago?  
A) 11 B) 7 C) 5 D) 4

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14. I was wandering around the house at 12 hours and 12 minutes before noon. I was wandering around at  
A) 11:48 A.M. B) 12:12 A.M. C) 11:48 P.M. D) 12:12 P.M.

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15. Two million equals  
A)  $200 \times 100$  B)  $200 \times 1000$  C)  $2000 \times 1000$  D)  $20\,000 \times 10$

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16. The number 2005 is a 4-digit number. What is the sum of the *greatest* 3-digit number and the *greatest* 4-digit number?  
A) 9998 B) 9999 C) 10000 D) 10998

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17. If an ape ate 1 banana every 4 hours, it ate ? bananas in 5 days.  
A) 20 B) 24 C) 30 D) 120

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18. One side of an equilateral triangle is 6 cm long. The triangle's perimeter is ? cm.  
A) 2 B) 6 C) 18 D) 36

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19. The school meeting is on the 199th day of the calendar year, in  
A) May B) June C) July D) August

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20. The number 728 is divisible by all of the following *except*  
A) 7 B) 8 C) 28 D) 72

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21. I multiplied  $1111 \times 1111$  and wrote down the product. When I wrote the product, the largest *odd* digit that I wrote was  
A) 1 B) 3 C) 4 D) 5

