

22. Charlie grills 3 hot dogs for every 8 hamburgers he grills. If he grills 48 hamburgers, he grills ? hot dogs.

- A) 18      B) 43      C) 80      D) 128

23. Today is my birthday. If my age in months is 99 greater than my age in years, how many years old am I now?

- A) 9      B) 11      C) 12      D) 14

24. The radius of a circle is half the length of the side of a square. The square's perimeter is equal to the diameter of the circle multiplied by

- A) 2      B) 4      C) 8      D) 16

25. When each of the following is divided by 8, only ? has a remainder that is a prime number.

- A) 548      B) 569      C) 678      D) 778

26. My aunt can fold 16 paper cranes in 4 minutes. My uncle can fold 15 paper cranes in 5 minutes. How long would it take them to fold 42 cranes if they work together at those rates?

- A) 6 minutes      B) 9 minutes      C) 12 minutes      D) 13 minutes

27. If  $1 + 3 + 5 + 7 + 9 + \dots + 99 = 2500$ , then  $3 + 5 + 7 + 9 + \dots + 101 =$

- A) 2500      B) 2600      C) 2601      D) 2700

28. Alfonse's high chair is 10 times as tall as his cat. His cat is 8 times as tall as his pet rat. His rat is 6 times as tall as his pet cricket. If his cricket is 4 mm tall, how tall is Alfonse's high chair?

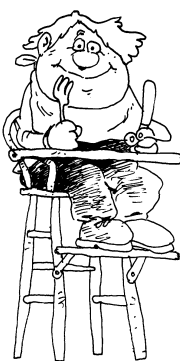
- A) 28 mm      B) 480 mm      C) 960 mm      D) 1920 mm

29. Ray runs every other day. If he ran for the first time last month on a Monday, then he ran for the tenth time last month on a

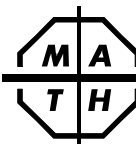
- A) Monday      B) Tuesday      C) Friday      D) Sunday

30. How many of the whole numbers less than 100 are 10 greater than an odd whole number?

- A) 45      B) 46      C) 90      D) 91



The end of the contest 4



# Sample 4th Grade Contest

Spring, 2013

## Instructions

# 4

- **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, and not a test*—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 \_\_\_\_\_

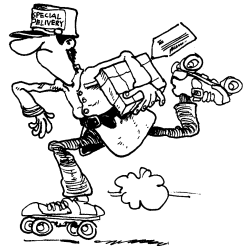
School \_\_\_\_\_ Teacher \_\_\_\_\_ Grade Level \_\_\_\_\_


### 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:** \_\_\_\_\_

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

1. $2 \times 0 \times 1 \times 3 =$ A) 0    B) 6    C) 12    D) 2013		1.
2. Rollo delivers 3 packages to each of the 4 houses on Sixth Street. Rollo delivers a total of <u>?</u> packages. A) 7    B) 12    C) 13    D) 72		2.
3. What is the remainder when $16 + 16 + 16 + 16$ is divided by 4? A) 16    B) 4    C) 2    D) 0		3.
4. Which of the following is a factor of 380? A) 3    B) 6    C) 8    D) 10		4.
5. If there are 8 pencils in each box, how many pencils are in 80 boxes? A) 10    B) 88    C) 640    D) 808		5.
6. $(60 \div 5) \times 4 =$ A) 3    B) 16    C) 48    D) 96		6.
7. Stan earns two dimes for every glass of lemonade he sells. If Stan earned \$20, how many glasses of lemonade did he sell? A) 10    B) 20    C) 40    D) 100		7.
8. How many whole numbers are greater than 9 and less than 60? A) 49    B) 50    C) 51    D) 59		8.
9. Sue sits on a seesaw waiting for her friend Seth. Seth left on a Saturday and will be back seventeen days later. Seth will be back on a A) Sunday    B) Tuesday C) Thursday    D) Friday		9.
10. The greatest odd factor of 30 is A) 5    B) 6    C) 15    D) 21		10.
11. Wayne goes to bed exactly 65 minutes after 8:30 P.M. At what time does Wayne go to bed? A) 9:05 P.M.    B) 9:25 P.M.    C) 9:35 P.M.    D) 9:45 P.M.		11.

12. Roy has rowed his rowboat 1000 m from where he started. Roy has rowed his rowboat <u>?</u> cm. A) 10    B) 100 C) 10 000    D) 100 000		12.
13. My pocketful of coins includes quarters, dimes, nickels, and exactly 8 pennies. Of the following, which could be the total value of my pocketful of coins? A) \$14.56    B) \$16.32    C) \$18.85    D) \$21.93		13.
14. $4 \times 4 \times 20 \times 20 = 80 \times \underline{?}$ A) 80    B) 20    C) 4    D) 2		14.
15. If the sum of the lengths of the sides of a rhombus is 24, then each side of the rhombus has a length of A) 3    B) 4    C) 6    D) 8		15.
16. If 20 years ago Allen was half as old as he is today, how old was he 10 years ago? A) 20    B) 30    C) 40    D) 50		16.
17. If the sum of 7 whole numbers is even, at most <u>?</u> of the numbers could be odd. A) 6    B) 4    C) 3    D) 1		17.
18. (10 hundreds) + (10 ones) = <u>?</u> tens A) 10    B) 101    C) 110    D) 1010		18.
19. Sam loves spaghetti and meatballs. He prepares a plate of spaghetti with some meatballs. If the number of meatballs is divisible by 4, 5, 6, 7, and 8, there must be at least <u>?</u> meatballs. A) 210    B) 420    C) 840    D) 6720		19.
20. The number that is 25 less than the number that is 50 less than 125 is A) 0    B) 25    C) 50    D) 75		20.
21. The product of 2 odd numbers is always A) divisible by 3    B) odd    C) prime    D) even		21.