The end of the contest (8



Visit our Web site at http://www.mathleague.com Steven R. Conrad, Daniel Flegler, and Jeannine Kolbush, contest authors



EIGHTH GRADE MATHEMATICS CONTEST

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

Sample 8th Grade Contest

Tuesday, February 22 (alternate date: February 15), 2005

Instructions

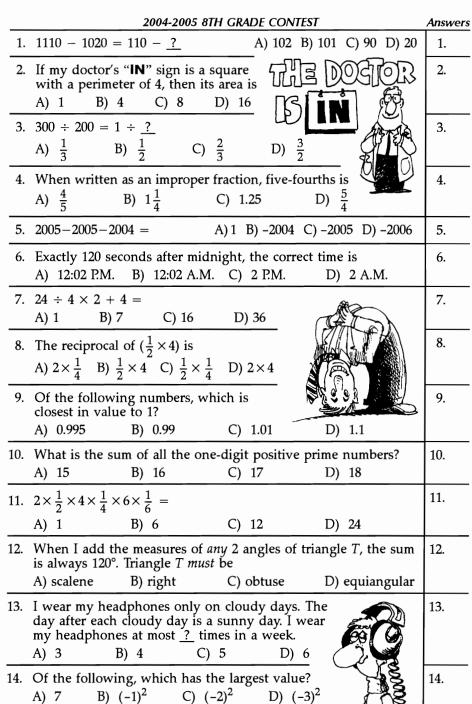
- **Time** Do not open this booklet until you are told by your teacher to begin. You will have only 30 minutes working time for this contest. You might be unable to finish all 40 questions in the time allowed.
- **Scores** Please remember that this is a contest, not a test—and there is no "passing" or "failing" score. Few students score as high as 30 points (75% correct). Students with half that, 15 points, should be commended!
- Format, Point Value, & Eligibility This is a multiple-choice contest. Every answer is an A, B, C, or D. You must write each answer in the Answers column to the right of each question. We suggest (but do not require) that you use a pencil. 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're in grade 8 or below and only if you don't also take this year's Annual 7th Grade or Annual 6th Grade Contest.

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

Last Name	First Name
	r Grade Level
	Today's Date
	-
To the Teacher:	In The Space Below
Please enter the score at the right be return this paper to the student. Place to the student.	
scores of 30 or higher must be held ur	,

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.

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	2004-2005 8TH GRADE CONTEST	Answers
16.	A dealer paid Bunny Fabergé 50 pennies for each of his decorated eggs, The dealer then sold each egg for 50 quarters. Bunny (the artist) got what percent of the final purchase price? A) 2% B) 4% C) 25% D) 50%	16.
17.	$\sqrt{\sqrt{256}} =$ A) 2 B) 4 C) 8 D) 16	17.
18.	30% × 40% = A) 12% B) 120% C) 1200% D) 12 000%	18.
19.	The number ? has exactly 4 different whole number factors. A) 30 B) 24 C) 12 D) 10	19.
20.	When rounded to the nearest fifth, 0.33 becomes A) 0.2 B) 0.3 C) $\frac{2}{5}$ D) $\frac{3}{5}$	20.
21.	I lost my coins! This morning, I had 7 coins worth 49¢. How many nickels did I have? A) 0 B) 1 C) 2 D) 7	21.
22.	1.5 m + 60 cm + 0.02 km = A) 0.221 m B) 2.21 m C) 22.1 m D) 221 m	22.
23.	How many of the positive multiples of 2 are factors of 222? A) 111 B) 4 C) 3 D) 1	23.
24.	What is the average of the first 99 positive whole numbers? A) 49.00 B) 49.50 C) 49.75 D) 50.00	24.
25.	If a small circle's diameter is a large circle's radius, then the small circle's area is ? % of the large circle's area. A) 20 B) 25 C) 40 D) 50	25.
26.	If 2/3 of a cup of fish food can feed 8 goldfish, then 4 cups of fish food should be able to feed ? goldfish. A) 12 B) 24 C) 36 D) 48	26.
27.	An integer <i>cannot</i> be ? if its square is even. A) prime B) odd C) even D) zero	27.
28.	If $4x$ = the reciprocal of $\frac{1}{x^3}$, then x could equal A) $\frac{1}{8}$ B) $\frac{1}{2}$ C) 2 D) 8	28.

15.

D) 0.9999

C) 99.99

15. 9000% + 900% + 90% + 9% =

B) 999.9

A) 9999