



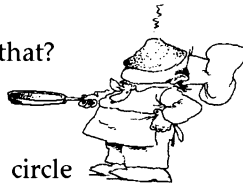
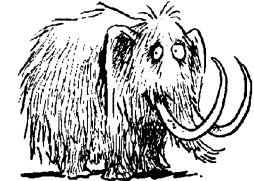


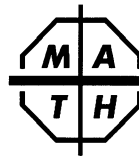
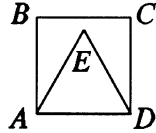
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|--|-----|
| 1. $1000 + 0 + 900 + 0 + 90 + 0 + 5 + 0 =$ A) 1995 B) 19950 C) 199500 D) 1995000 | 1. |
| 2. Which number is nine hundred less than one thousand one? A) 99 B) 100 C) 101 D) 1901 | 2. |
| 3. A triangle has sides of lengths 2, 2, and 3. This triangle is A) scalene B) isosceles C) right D) equilateral | 3. |
| 4. This year, there were $11 \times 121 - 11 \times 11$ fewer turkeys eaten than last year. How many fewer turkeys were eaten this year? A) 120 B) 121 C) 1200 D) 1210 | 4. |
| 5. 200% of 50% equals A) 1% B) 100% C) 250% D) 10000% | 5. |
| 6. $(1995 + 1994 + 1993) - (1992 + 1991 + 1990) = 1990 - ?$ A) 1999 B) 1993 C) 1987 D) 1981 | 6. |
| 7. How many positive primes have remainder 0 when divided by 2? A) 0 B) 1 C) 2 D) 7 | 7. |
| 8. Divide $(1+4)+(1+8)+(1+12)+(1+16)$ by 4. The remainder is A) 0 B) 1 C) 2 D) 3 | 8. |
| 9. All the figures below consist of the same four squares of equal size. Which figure has the smallest perimeter? A)  B)  C)  D)  | 9. |
| 10. The greatest common divisor of 999999 and $2 \times 2 \times 2 \times 2 \times 2 \times 2$ is A) 1 B) 2 C) 3 D) 9 | 10. |
| 11. What number, when added to 1111, results in a sum of 10100? A) 8989 B) 9090 C) 9191 D) 11211 | 11. |
| 12. A flapjack flipping chef trainee "missed" $4 - 0 \times 2 - 0 \times 1$ times. How many "misses" is that? A) 0 B) 2 C) 4 D) 8 | 12. |
| 13. Of the following, which is <i>not</i> a polygon? A) triangle B) rhombus C) pentagon D) circle | 13. |
| 14. $111111 + 111111 + 111111 + 111111 + 111111 + 222222 =$ A) 1111111 B) 333333 C) 666666 D) 777777 | 14. |
| 15. Pat wrote a word in secret code. In this code, the number 26 stood for the letter "A," the number 25 stood for "B," and so on. In this code, the 5 numbers 19 26 11 11 2 stand for the word A) RATTY B) HAPPY C) HOPPY D) DANNY | 15. |



| | |
|---|-----|
| 16. 10 quarters + 10 nickels + 10 pennies has the same value as A) 11 dimes B) 21 dimes C) 30 dimes D) 31 dimes | 16. |
| 17. To the nearest hundred years, how old is a 3456-year-old Woolly Mammoth? A) 3000 B) 3400 C) 3500 D) 3460 | 17. |
| 18. $(10 \div 1) + (20 \div 2) + (30 \div 3) + (40 \div 4) = ? \div 5$ A) 200 B) 100 C) 40 D) 8 | 18. |
| 19. If the product of an even number and an odd number is 840, what is the largest possible value of this odd number? A) 21 B) 35 C) 105 D) 420 | 19. |
| 20. What is the sum of the two largest primes less than 30? A) 48 B) 52 C) 56 D) 68 | 20. |
| 21. $8 \div 4 \times 2 + 4 \times 2 \div 8 =$ A) 2 B) 3 C) 4 D) 5 | 21. |
| 22. A bakery lowered its price for cookies from 25¢ each to 20¢ each. For \$4, how many more cookies could you buy now than before? A) 1 B) 4 C) 5 D) 20 | 22. |
| 23. Thirty-three minutes after 11 A.M. is ? minutes before 1 P.M. A) 27 B) 87 C) 93 D) 97 | 23. |
| 24. The average of 7 whole numbers is 7. If 6 of these numbers are 1, then the seventh number must be A) 1 B) 7 C) 13 D) 43 | 24. |
| 25. $5 \times 5 \times 5 \times 2 \times 2 \times 2 \times 2 = 4 \times ?$ A) 125 B) 125×2 C) 125×4 D) 125×8 | 25. |
| 26. Bob has only enough paint to cover a wall 12m by 15m. At most how many different squares of size 3m by 3m can he paint on that wall? A) 9 B) 18 C) 20 D) 60 | 26. |
| 27. $1995199519951995 \div 1995 =$ A) 1111 B) 1010101 C) 1001001001 D) 1000100010001 | 27. |
| 28. If 5 widgets = 10 fidgets, then 8 fidgets = ? widgets. A) 3 B) 4 C) 13 D) 16 | 28. |
| 29. An isosceles right triangle must have an angle of measure A) 10° B) 40° C) 45° D) 100° | 29. |



| | |
|---|------------|
| <p>30. Of the following, which has an odd quotient when divided by 2? A) 456 456 456 456 456 B) 678 678 678 678 678 C) 432 432 432 432 432 D) 876 876 876 876 876</p> | <p>30.</p> |
| <p>31. As shown, $ABCD$ is a square and ADE is an equilateral triangle. What is the degree-measure of angle BAE? A) 30° B) 45° C) 60° D) 90°</p> | <p>31.</p> |
| <p>32. Each of the following ratios is equal to 15:60 <i>except</i> A) $\frac{1}{2}:2$ B) 11111:44444 C) $1:\frac{1}{4}$ D) $10^6:(4 \times 10^6)$</p> | <p>32.</p> |
| <p>33. Lee multiplied three different prime numbers together. How many different whole numbers are factors of this product? A) 3 B) 6 C) 8 D) 9</p> | <p>33.</p> |
| <p>34. $(1995-1993) \times (1993-1991) \times (1991-1989) \times \dots \times (5-3) \times (3-1) =$ A) 2×996 B) 2×997 C) 2^{996} D) 2^{997}</p> | <p>34.</p> |
| <p>35. The lengths of a side of square S and a radius of circle C are equal. What is the area of C divided by the area of S? A) π B) 2π C) 4π D) 4</p> | <p>35.</p> |
| <p>36. The product of 6 whole numbers is 36. What is the least possible value of their sum? A) 8 B) 12 C) 14 D) 16</p> | <p>36.</p> |
| <p>37. If the pattern of the first 6 letters in $CIRCUSCIRCUS \dots$ continues, then the pattern's 500th letter is A) R B) U C) C D) I</p> | <p>37.</p> |
| <p>38. I made a list of three-digit whole numbers, and every digit I used was odd. At most how many different numbers were on my list? A) 125 B) 150 C) 333 D) 450</p> | <p>38.</p> |
| <p>39. $2^{1000} + 2^{1000} =$ A) 2^{1001} B) 2^{2000} C) 4^{1000} D) 4^{2000}</p> | <p>39.</p> |
| <p>40. I multiplied one whole number by 18. I multiplied a second whole number by 21. I then added the two products. Of the following, which <i>could</i> have been the resulting sum? A) 1996 B) 1997 C) 1998 D) 1999</p> | <p>40.</p> |



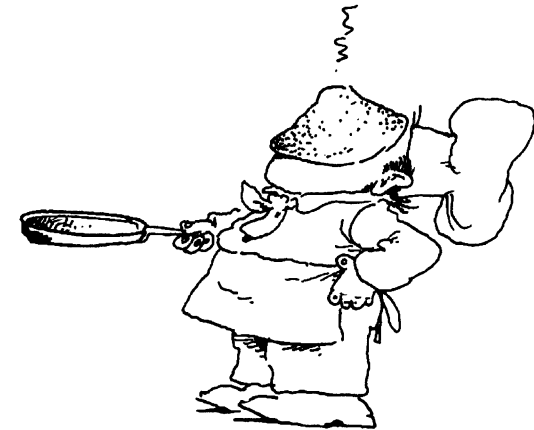
1994-95 Annual 6th Grade Contest


Tuesday, March 14, 1995

6

Instructions

- **Time** 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 and Point Value** This is a multiple-choice contest. Each answer is an A, B, C, or D. Write each answer in the *Answers* column to the right of each question. A correct answer is worth 1 point. Unanswered questions get no credit. You **may** use a calculator.
- **About Math League Contests** Each year the Math League sponsors math contests for grades 4, 5, 6, 7, 8, Algebra Course 1, and High School. Twelve books of past contests, *Grades 4, 5, & 6 (Volumes 1, 2, 3, & 4)*, *Grades 7 & 8 (Volumes 1, 2, 3, & 4)* and *High School, (Volumes 1, 2, 3, & 4)* are available, for \$12.95 each volume (\$19.95 Canadian), from Math League Press, P.O. Box 17, Tenafly, N.J. 07670-0017. Visit us on the web at <http://www.MathLeague.com/> or call (201) 568-6328 for more information on our books, software, and math contests.



The end of the contest  6