
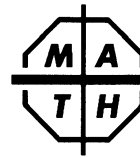


1. Find the missing number: $19 \times 91 = 91 \times ?$ A) 9 B) 19 C) 91 D) 1991	1.
2. 1 fortnight = 2 weeks = $? \text{ days}$ A) 4 B) 7 C) 8 D) 14	2.
3. $\frac{1}{1} + \frac{22}{22} + \frac{333}{333} =$ A) 1 B) 3 C) 6 D) 356	3.
4. Ice cream pops cost 75¢ each and ice cream cones cost 95¢ each. What is the cost of 4 pops and 2 cones? A) \$1.20 B) \$3.00 C) \$4.90 D) \$6.00	4.
5. Of the following numbers, which is closest to 99.4? A) 99 B) 100 C) 101 D) 102	5.
6. $\sqrt{1 \times 9 \times 9 \times 1} =$ A) 3 B) 9 C) 81 D) 1991	6.
7. How many degrees does the minute hand of a circular clock move in 1 hour? A) 1° B) 60° C) 120° D) 360°	7.
8. $1^1 \times 1^2 \times 1^3 \times \dots \times 1^{100} =$ A) 0 B) 1 C) 10 D) 100	8.
9. The perimeter of an equilateral triangle is 36. What is the length of a side of this triangle? A) 6 B) 12 C) 18 D) 36	9.
10. $3.141 \div 0.9 =$ A) $\pi \div 0.9$ B) 3.39 C) 3.49 D) 3.59	10.
11. The sum of the six whole number factors of 32 is A) 30 B) 31 C) 32 D) 63	11.
12. $1000 \times 0.0001 =$ A) 1 B) 0.1 C) 0.01 D) 0.001	12.
13. $\frac{5 \times 4 \times 3 \times 2 \times 1}{1 \times 2 \times 3 \times 4 \times 5} =$ A) 1 B) 5 C) 24 D) 120	13.
14. $0.1 + 0.2 + 0.3 + 0.4 =$ A) 1% B) 10% C) 100% D) 1000%	14.
15. 1 centimeter = A) 100 m B) 10 m C) 0.1 m D) 0.01 m	15.

16. $\frac{46 \times 4}{23 \times 2} =$ A) 2 B) 4 C) 23 D) 46	16.
17. If \$1 Canadian = 80¢ U.S., then \$1 U.S. = $? \text{ Canadian.}$ A) \$1.25 B) \$1.20 C) 80¢ D) 75¢	17.
18. Which of the following inequalities is <i>false</i> ? A) $\frac{10}{11} < \frac{29}{33}$ B) $\frac{4}{5} < \frac{25}{30}$ C) $\frac{3}{7} < \frac{16}{35}$ D) $\frac{7}{13} < \frac{22}{39}$	18.
19. The average of the first ten positive whole numbers is A) 5 B) 5.5 C) 6 D) 10	19.
20. $\frac{3}{4}\% =$ A) 0.75 B) 0.075 C) 0.0075 D) 0.00075	20.
21. $10 \times 10 \times 10 \times 0.1 \times 0.1 \times 0.1 =$ A) 0 B) 0.1 C) 1 D) 10	21.
22. In a recipe, the ratio of eggs to sugar is 2 eggs per 25 g of sugar. How many eggs are needed for 175 g of sugar? A) 12 B) 13 C) 14 D) 15	22.
23. $(\frac{1}{2} \times \frac{1}{3}) \div (\frac{1}{2} - \frac{1}{3}) =$ A) $\frac{1}{6}$ B) $\frac{1}{5}$ C) $\frac{1}{2}$ D) 1	23.
24. What is the sum of the reciprocals of the four whole number factors of 6? A) 2 B) 12 C) $\frac{1}{12}$ D) $\frac{7}{6}$	24.
25. $12^3 =$ A) $2^8 \times 3^3$ B) $2^6 \times 3^3$ C) $2^4 \times 3^2$ D) $2^2 \times 3^2$	25.
26. What is the product of the first four positive prime numbers? A) 24 B) 30 C) 95 D) 210	26.
27. $\sqrt{1} + \sqrt{4} + \sqrt{9} + \sqrt{16} + \sqrt{25} + \sqrt{36} + \sqrt{49} + \sqrt{64} =$ A) 6 B) $\sqrt{6}$ C) $\sqrt{81}$ D) 6^2	27.
28. If the time now is 2:17 P.M., what will be the time 11 hours and 59 minutes from now? A) 1:17 A.M. B) 2:15 A.M. C) 2:16 A.M. D) 2:18 A.M.	28.
29. The reciprocal of the reciprocal of a number is 10. What is the number? A) 10 B) 100 C) $\frac{1}{10}$ D) $\frac{1}{100}$	29.

30. The ratio of boys to girls in a math class is 3:1. If 2 boys leave the class, the ratio of remaining boys to girls could <i>not</i> be A) 2:1 B) 1:1 C) 5:2 D) 1:2	30.
31. The measure of the complement of $\angle A$ is 30° . What is the measure of the supplement of $\angle A$? A) 30° B) 60° C) 120° D) 150°	31.
32. If $\frac{2}{3}$ of a number is $\frac{1}{2}$, then the number is ? A) $\frac{3}{4}$ B) $\frac{1}{3}$ C) $\frac{3}{2}$ D) 3	32.
33. If a car is traveling at 60 km per hour, how far does it travel in 72 minutes? A) 72 km B) 132 km C) 144 km D) 4320 km	33.
34. When a certain positive number is multiplied by 2, the result is the square of the original number. The original number is A) 4 B) 3 C) 2 D) 1	34.
35. A triangle with base 10 has the same area as a square with side 5. What is the length of the altitude to the base of the the triangle? A) 2.5 B) 5 C) 10 D) 25	35.
36. How many whole numbers between 1 and 1991 are multiples of 5 <i>and</i> are even? A) 400 B) 399 C) 398 D) 199	36.
37. $1\frac{1}{2} \times 1\frac{1}{3} \times 1\frac{1}{4} \times 1\frac{1}{5} \times 1\frac{1}{6} =$ A) $1\frac{1}{720}$ B) $2\frac{1}{2}$ C) 3 D) $3\frac{1}{2}$	37.
38. $1991^2 =$ A) 2 054 081 B) 3 054 083 C) 3 964 081 D) 4 054 081	38.
39. The measures of the angles of a quadrilateral are in the ratio 1:2:3:4. What is the measure of the smallest angle of the figure? A) 18° B) 30° C) 36° D) 72°	39.
40. What is the ones' digit in the number 3^{1991} ? A) 1 B) 3 C) 7 D) 9	40.

The end of the contest  **7**



1990-91 Annual 7th Grade Contest

Tuesday, February 5, 1991

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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** Remember *this is a contest, not a test*. There is no “passing” or “failing” score. Few students score as high as 30 points (75% correct); students with even half that, 15 points, *deserve commendation!*
- **Format and Point Value** This is a multiple-choice contest. For each question, write the *capital letter* that is *in front of* the answer you choose. For each question, your answer will be one of the *capital letters* A, B, C, or D. Each question you answer correctly is worth 1 point. Unanswered questions receive no credit.