MathMatters Competition Beehive Science and Technology Academy November 12, 2022



4th Grade TEST BOOKLET

Instructions:

- 1) Do not open your testing booklet until instructed to do so.
- 2) You will have 40 minutes to complete 30 questions. Each question is multiple choice with answer selections a, b, c, d.
- 3) All answers must be indicated by filling in the circles on the <u>answer sheet</u>. Be sure to fill in each circle completely. No answers written in the test booklet will be counted.
- 4) Each question is worth 1 point, except for the last 5 questions which are worth 2 points. Remember that this is a competition, not a test. There is no failing or passing score.
- 5) Calculators are **not** allowed.



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1) 7 x 8 = ? a) 28 x 2 b) 34 x 2 c) 14 x 3 d) 16 x 3	5) 10000 ÷ 200 × ? = 10000 a) 100 b) 200 c) 1000 d) 2000
2) If each fork costs \$6, each spoon costs \$7, and each knife costs \$8, what is the total cost of 3 forks, 4 spoons, and 5 knives? a) \$40 b) \$46 c) \$80 d) \$86	6) Which pair of numbers has a common factor greater than 1? a) 4 and 9 b) 6 and 27 c) 27 and 50 d) 33 and 100
3) When Flash, the tortoise, divides the number of peas he ate by 5, the remainder <i>cannot</i> be a) 0 b) 1 c) 3 d) 5	7) 5 m + 5 cm + 5 mm = ? mm a) 5055 b) 5505 c) 5550 d) 55550
4) The length and width of a rectangle are 20 and 16 respectively. It's perimeter is a) 320 b) 160 c) 72 d) 36	8) 33 hours and 36 minutes =?_minutes a) 1996 b) 2006 c) 2016 d) 2026

9) The product of any two multiples of 3 must be a multiple of a) 6 b) 9 c) 12 d) 15	13) The product of one million and one-thousand million has how many zeros in the number? a) 15 b) 16 c) 17 d) 54
10) Which of the following has an odd number of whole-number factors? a) 47 b) 48 c) 49 d) 50	14) 24 × 26 × 28 × 30 × 32 = 48 × 52 × 56 × 60 × _?_ a) 2 b) 4 c) 16 d) 64
11) Joe started with 30 books. He sold 1 book, bought 2 books, sold 3 books, bought 4 books, sold 5 books, and finally bought 6 books. After all that, how many books does he have? a) 9 b) 27 c) 33 d) 51	15) On Day 1, there are 256 apples on a tree. On each day after Day 1 until one apple is left, the number of apples on the tree is half the number there were the day before. On Day ?, there will be only one apple on the tree. a) 10 b) 9 c) 8 d) 7
12) A square whose side-length is _?_has the same numerical value for its perimeter and its area. a) 1 b) 2 c) 4 d) 16	16) What time is 11999 hours after 3 P.M.? a) 2 A.M. b) 2 P.M. c) 4 A.M. d) 4 P.M.

17) Which of the following is a factor of both 12345678 and 123456789? a) 2 b) 7 c) 9 d) 11	21) 2022 × 20 + 2022 × 40 + 2022 × 60 = 2022 × ? a) 120 b) 240 c) 2016 d) 48000
18) The product of any whole number and 2 is always a) Prime b) Composite c) Odd d) Even	22) How many thousands of seconds are there in 365 days? a) 31536 b) 525600 c) 1892160 d) 3536000
19) If my age 15 years ago was 15, my age 15 years from now will be a) 15 b) 30 c) 45 d) 60	23) How many whole numbers are greater than 30 and less than 70? a) 38 b) 39 c) 40 d) 41
20) What a busy week! Each of my 4 English assignments took me 45 minutes to complete, and each of my 6 math assignments took 40 minutes. On just these, I spent a total of _?_ hours on homework assignments. a) 6 b) 7 c) 420 d) 430	24) Tom and Jerry had a fishing contest. By noon Tom had caught 47 more fish than Jerry, so Tom went to sleep and caught no more fish. Jerry kept fishing, and the total number of fish he caught all day was 19 more than Tom's total. If the total number of fish Jerry caught that day was 3 times as many as he had caught by noon, Jerry caught a total of _? fish. a) 33 b) 80 c) 99 d) 102

