



MathMatters Contest

Beehive Science and Technology Academy

4th Grade

SAMPLE TEST BOOKLET

Instructions:

- 1) Do not open this test booklet until instructed to do so.
- 2) You will have 40 minutes to answer 30 questions. Each question is multiple choice with answer selections of A, B, C and D.
- 3) All answers must be marked by filling in the circles on the answer sheet. Be sure to fill in each circle completely. **No answers written in the test booklet will be counted.**
- 4) Each problem is worth 1 point, except for the last 5, which are 2 points each. Unanswered questions get no credit. There is no penalty for wrong answers. Don't spend too much time on any question.
- 5) Remember that this is a competition, not a test. There is no failing or passing score. Just do your best.
- 6) Use the provided space below each question for your calculations. You may use any space in the exam booklet as scratch paper. You may take this exam booklet with you after the test.
- 7) Calculators are not allowed.



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- 1) Five years ago I was 5 years old. What age will I be five years from now?
A) 10 B) 15 C) 40 D) 50
- 2) $1+2+3+4 = 11+12+13+14 - \underline{\hspace{2cm}}$
A) 10 B) 15 C) 40 D) 50
- 3) What is the remainder when 7778 is divided by 7?
A) 0 B) 1 C) 2 D) 8
- 4) Which of the following sums is an odd number?
A) $51+51$ B) $36+63$ C) $12+24$ D) $49+51$
- 5) If today is Monday, then 13 days from now will be ?
A) Saturday B) Sunday C) Monday D) Tuesday
- 6) In the list of numbers 1,2,3,4,5,6,7,8,9, how many of the numbers in the list are exactly 2 more than some other number in the list?
A) 2 B) 7 C) 9 D) 11

- 7) If bubble gum costs 5 cents per piece, the number of pieces Annie can buy for \$2.00 is

 A) 10 B) 20 C) 40 D) 195

- 8) What number must I multiply by 3 to get a product of 51?

A) 153 B) 27 C) 17 D) 16

- 9) Jack is 3 cm taller than Jen and 2 cm shorter than Jim. Jim is _____ than Jen.

A) 5 cm taller B) 1 cm taller C) 5 cm shorter D) 1 cm shorter

- 10) Tom and Jerry have been enemies for six and one half years. How many months have they been enemies?

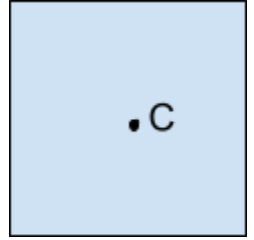
A) 65 B) 68 C) 72 D) 78

- 11) If the wool from 1 sheep can make 4 sweaters, how many sheep are needed to make 100 sweaters?

A) 4 B) 5 C) 25 D) 400

- 12) On a piece of paper, a line is drawn through the center, C, of a square. How many times does the line intersect the square?

A) 0 B) 1 C) 2 D) 3



- 13) Which of the following has the largest product?

A) 47×53 B) 48×52 C) 49×51 D) 50×50

- 14) Which of the following products is odd?

A) 30×9 B) 3×90 C) 30×90 D) 3×9

- 15) I had 3 dozen socks in my drawer, but I lost 2 pairs. How many socks do I now have in my drawer?

A) 32 B) 30 C) 24 D) 16

- 16) $5 + 50 + 500 = 5 \times \underline{\hspace{2cm}}$

A) 10 B) 100 C) 111 D) 550

- 17) What time is it 76 minutes before 3:15 PM?

A) 4:31PM B) 1:59 PM C) 1:99 PM D) 2:39 PM

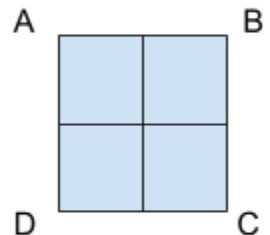
18) I plan to retire when I am 67 years old. If I plan to retire in 29 years, how old am I now?
A) 39 B) 38 C) 49 D) 48

19) What is the tens' digit of the largest 4-digit even number which uses each of the digits 5, 7, 8, and 9 exactly once?
A) 5 B) 7 C) 8 D) 9

20) When a certain number is divided by 3, the quotient is 240. When that same number is divided by 6, the quotient is _____.
A) 720 B) 480 C) 120 D) 80

21) Otto the octopus uses 2 tentacles to juggle up to 3 spheres. If he uses all 8 tentacles, he can juggle up to _____ spheres.
A) 8 B) 9 C) 12 D) 24

22) Square ABCD is divided into 4 smaller squares as shown in the diagram. The perimeter of each of the smaller squares is 4. What is the perimeter of the square ABCD?
A) 8 B) 12 C) 16 D) 20



23) If 1 Earth year is equal to 4 years on planet Quarto, how many Earth years are equal to 12 years on planet Quarto?

- A) 3 B) 16 C) 48 D) 60

24) For a quarter (25 cents), Pat can play a video game for 5 minutes. How much money does Pat need to play for an hour?

- A) \$2.50 B) \$3.00 C) \$5.00 D) \$13.75

25) A prime number is a number greater than 1 whose only whole number factors are itself and 1. What is the smallest prime number greater than 50?

- A) 51 B) 52 C) 53 D) 59

26) The product of 1000 whole numbers is 1000. What is the largest possible value the sum of these numbers can have?

- A) 1000 B) 1992 C) 1993 D) 1999

27) What is the largest number which is less than $2 * 3 * 5 * 7$ and also a divisor of $2 * 3 * 5 * 7$?

- A) 357 B) 2357 C) 70 D) 105

28) A square sheet of paper is cut along a straight line into 2 pieces. Neither of these 2 pieces can be a _____.

- A) Pentagon B) Rectangle C) Triangle D) Square

29) A bag contains 2 red, 2 blue, and 2 green marbles. Sue takes one marble at a time from the bag without looking. What is the least number of marbles Sue must take from this bag to be certain that she has at least 2 of the same color marble?

- A) 2 B) 3 C) 4 D) 6

30) A set of pyramids is created from blocks. The pattern for the pyramid continues to grow. The first figure has only 1 block. The second figure has 2 blocks in the bottom row and 1 block in the top row. The third figure has 3 blocks in the bottom row, 2 in the middle row, and 1 on the top row. The first few figures are shown in the diagram. Assuming this pattern continues, how many blocks will the 20th figure have?

- A) 20 B) 21 C) 200 D) 210

