Spirit of Math®

Grade Three Mathematics Contest 2019

Instructions

1. You have **45 minutes** to write the contest.
2. The contest is multiple-choice with four choices for each question. Write the CAPITAL letter of the answer you choose on the line to the right of each question.
3. Each question answered correctly is worth one mark, and the sum of the correct answers is the score.
4. Marks are not taken off for wrong answers.
5. No calculators or other counting tools are allowed.

Student Name: _____

Score: /30

1) $24 + 18 + 12 + 6 = ?$
   A) 50   B) 60   C) 70   D) 80   _____

2) Which number below is not a palindrome? (Hint: A palindrome is a word or number that reads the same forwards and backwards.)
   A) 223   B) 323   C) 747   D) 2002   _____

3) Which of the following fractions is the largest?
   A) $\dfrac{3}{10}$ B) $\dfrac{7}{10}$ C) $\dfrac{5}{10}$ D) $\dfrac{1}{10}$ _____

4) $5 \times 2 \times 5 \times 2 \times 2 = ?$
   A) 40   B) 200   C) 400   D) 2000   _____

5) Which number comes next in the pattern: 1, 3, 6, 10, _____ , ...
   A) 12   B) 13   C) 14   D) 15   _____

6) All 27 students in Mr. Genius' class like math. Twelve like doing word problems, 20 like doing drills and some like both. How many students like doing both word problems and drills?
   A) 5   B) 15   C) 27   D) 32   _____

7) Sandeep is five years older than Sadeq. Sadeq is three years younger than Baaj. If Baaj is 12, how old is Sandeep?
   A) 4   B) 10   C) 14   D) 20   _____

8) Which of the following shapes has the least number of sides?
   A) Decagon   B) Hexagon   C) Octagon   D) Pentagon   _____

9) Ray, Luke and Nathan were having a party. They each invited one friend. At the party, they decided to share the last hotdog. How many parallel cuts do they need to make for everyone to get a piece of the hotdog?
   A) 3   B) 4   C) 5   D) 6   _____

10) Chris' cricket tournament is five days after three days after the week before his birthday. If Chris' birthday is on November 7th, what day is Chris' tournament?
    A) November 8th B) November 7th C) November 5th D) November 1st _____
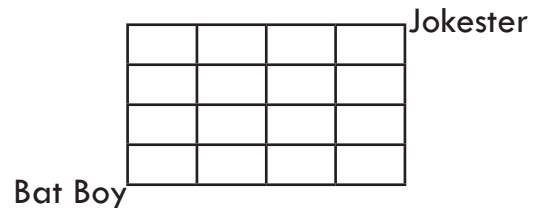
11) Johnathan got three dozen candies as a gift. Sarah got half as many as Johnathan. How many candies did Sarah get?
    A) 36   B) 30   C) 24   D) 18   _____
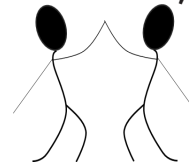
12) There are 38 students in Mrs. Studywell's class. All but three did not get perfect scores on their test. How many students made a mistake on the test?

A) 3   B) 35   C) 38   D) 41   _____

13) Harpreet scored 72, 73 and 77 on her three tests. What is her average score?

A) 71   B) 72   C) 73   D) 74   _____

14) Bat Boy needs to get to the warehouse to stop the Jokester. He has a 4 × 4 grid and can only travel north and east. How many different pathways can he get to the warehouse to stop the Jokester?

A) 35   B) 56   C) 70   D) 80   _____

15) All 10 students gave each other high-fives after reaching their goal for their long multiplication drill. If each student high-fived each other once, how many high-fives were given in total?

A) 90   B) 65   C) 50   D) 45   _____

16) Which of the following is the largest product?

A) 37 × 43   B) 38 × 42   C) 39 × 41   D) 40 × 40   _____

17) Reading Raj started reading his book "Exciting Equations" at the top of page 18 and stopped at the bottom of page 42. How many pages did he read?

A) 60   B) 25   C) 24   D) 17   _____

18) Sarah went to the store to buy school supplies. She bought a notebook for $3.25, and a pencil for $0.85. If Sarah paid with a $5 bill, how much change should she get back?

A) $1.60   B) $1.40   C) $1.00   D) $0.90   _____

19) $5 \div 2 \times 3 \times 4 \div 5 \div 3 \times 8 = ?$

A) 16   B) 17   C) 18   D) 20   _____

20) How many different ways can you arrange the letters in the word "RAN", including the way that spells "RAN"?

A) 7   B) 6   C) 5   D) 4   _____

21) What is the sum of the factors of 24?

A) 60   B) 54   C) 50   D) 48   _____

22) Mr. Rainbow has six pairs of red socks, three pairs of orange socks, five pairs of yellow socks, and four pairs of blue socks. How many pairs of socks must Mr. Rainbow take out of his drawer, without looking, to be sure a pair of red socks has been removed?

A) 6   B) 12   C) 13   D) 18   _____

23) Bug lover Betty likes to look for insects. Yesterday she found some spiders (8 legs) and some ants (6 legs). If she counted 12 heads and 78 legs, how many ants did she see?

A) 3   B) 5   C) 9   D) 12   _____

24) $(\sqrt{9} + \sqrt{25}) \div 2 \times 8 =$

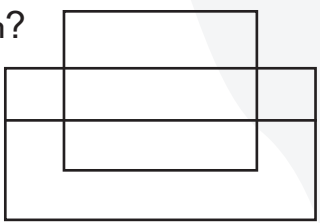A) 56   B) 32   C) 24   D) 16   _____

25) If a 3 cm × 3 cm × 3 cm cube is painted, what is the surface area that is covered by paint?

A) 81 cm^2 B) 54 cm^2 C) 45 cm^2 D) 27 cm^2 _____

26) Hussan's alarm clock rings the same number of times as the hour (at 1:00 it rings once and at 5:00 it rings 5 times). At 4 o'clock it takes the clock 12 seconds to ring 4 times. How long will it take the same clock to ring 8 times at 8 o'clock?

A) 12 seconds   B) 24 seconds   C) 28 seconds   D) 32 seconds   _____

27) What is the greatest number of regions that can be made in a circle with four intersecting chords? (Hint: A chord always connects two points on a circle).

A) 9   B) 10   C) 11   D) 12   _____

28) In a store, a pen is one price and an eraser is a different price. One pen and two erasers cost 23 cents. Two pens and one eraser cost 19 cents. How much does four pens and four erasers cost?

A) 56 cents   B) 76 cents   C) 92 cents   D) 98 cents   _____

29) Aiden's mom baked a pie. Aiden ate $\frac{1}{4}$ of the pie. Aiden's sister ate $\frac{1}{2}$ of the remaining pie. How much pie is left?

A) $\frac{1}{2}$ B) $\frac{3}{8}$ C) $\frac{1}{4}$ D) $\frac{1}{6}$ _____

30) How many rectangles are in the following diagram?

A) 11   B) 12   C) 13   D) 14   _____