February 2018
Grade Four Mathematics Contest

Please observe the following 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 are allowed.

Student Name: _____

Score: _____ /30

1) $14 + 7 + 6 + 23$

   A) 40   B) 50   C) 80   D) 90   ____

2) Ivy leaves the house at 10:00 a.m. to go to the mall. It takes 16 minutes to walk to the bus stop. What time will she arrive at the bus stop?

   A) 10:00 a.m.   B) 10:16 a.m.   C) 11:00 a.m.   D) 11:16 a.m.   ____

3) The number of sides of an octagon divided by the number of sides of a square equals:

   A) 2   B) 4   C) 6   D) 8   ____

4) Sally has four dimes and twice as many nickels. How much money does she have in total?

   A) 40 cents   B) 60 cents   C) 80 cents   D) 1 dollar   ____

5) What is the next term in the following sequence: 17, 25, 33, 41, ___

   A) 49   B) 52   C) 60   D) 100   ____

6) $5 \times 2 \times 2 \times 5 \times 5 \times 2 \times 5 =$

   A) 1000   B) 2000   C) 5000   D) 6000   ____

7) The sum of the Roman numerals IV + VI is:

   A) 6   B) 8   C) 10   D) 20   ____

8) Eighty cats went out for a walk. All but 14 returned during dinner time. How many cats were still out for a walk?

   A) 14   B) 66   C) 80   D) 94   ____

9) A palindrome is a number or word that reads the same forwards and backwards. Which of the following is the smallest 3-digit palindrome?

   A) 11   B) 101   C) 999   D) 1221   ____

10) Alex and Janis live on the same street. Alex lives 24 km directly west of the Post Office. Janis lives 21 km directly east of the Post Office. How far are Alex and Janis away from each other?

   A) 21 km   B) 24 km   C) 45 km   D) 50 km   ____

11) During recess, a dozen friends traded hockey cards with each other once. How many trades were made during recess?

   A) 22   B) 33   C) 66   D) 88   ____

12) Which of the following is a perfect square?

A) 20 B) 99 C) 101 D) 121 _____

13) A bag contains 22 markers: 6 blue, 5 yellow, 4 green, and the rest are red. Without looking into the bag, how many markers should Syros take out before he can be sure that he has taken out at least one red marker?

A) 6 B) 15 C) 16 D) 22 _____

14) The temperature was 25 degrees. Then it dropped 33 degrees before it rose 12 degrees. What was the final temperature at the end of the day?

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

15) Conan loves bananas! How many ways can he rearrange the letters in the word "BANANA" including the way to spell "BANANA"?

A) 20 B) 40 C) 60 D) 80 _____

16) Denton loves music. In his guitar collection, he has bass guitars (with 4 strings each) and acoustic guitars (with 6 strings each). If he counted 7 guitars and 38 strings, how many acoustic guitars does Denton own?

A) 2 B) 3 C) 5 D) 6 _____

17) Charmaine has two different types of shoes: two dozen pairs of pink shoes and a dozen pairs of high heel shoes. How many shoes does she have?

A) 6 B) 12 C) 30 D) 72 _____

18) What is the ones digit of the product of the first five prime numbers?

A) 0 B) 2 C) 3 D) 5 _____

19) Rachel's mint chocolate chip ice cream cake had been sliced into 12 equal pieces. Dad ate half of the cake. Mom ate half of what was left. Her brother ate one slice of cake. How many slices were left for Rachel?

A) 1 B) 2 C) 4 D) 6 _____

20) Ben is having a birthday party. If he can blow up 15 balloons every 3 minutes, how many balloons can he blow up in 15 minutes?

A) 5 B) 15 C) 75 D) 85 _____

21) Millie needs to saw a log of wood using parallel cuts. If it takes her one minute to cut a log into six pieces, how long would it take her to cut a log into three pieces?

A) 12 seconds B) 24 seconds C) 30 seconds D) 36 minutes _____

22) Which of the following numbers is the smallest number that is divisible by both 4 and 11?

A) 528   B) 484   C) 222   D) 121   ____

23) Agnes got lost in a maze. How many different ways can she travel to the exit? She can travel only south, and west. The maze is a 3×4 grid, followed by a 3×3 grid.

A) 20   B) 35   C) 55   D) 700   ____

24) Shannon read one book on March 1ˢᵗ, two books on March 2ⁿᵈ, three books on March 3ʳᵈ, so on until March 20ᵗʰ. How many books would she have read at the end of March 20ᵗʰ?

A) 210   B) 105   C) 100   D) 21   ____

25) What is the probability of getting an even number when rolling one six-sided dice?

A) $\frac{1}{36}$ B) $\frac{1}{6}$ C) $\frac{1}{4}$ D) $\frac{1}{2}$ ____
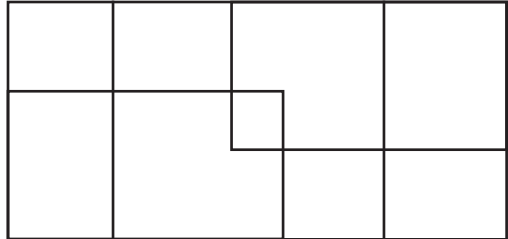
26) Amiza scored an average of 76 points on her first four math tests. What should she score on the next test to increase her average to 80 points?

A) 4   B) 80   C) 96   D) 100   ____

27) Today is three days before one week before five days after December 25ᵗʰ. If yesterday was Michael's birthday, when was his birthday?

A) December 18ᵗʰ   B) December 19ᵗʰ   C) December 20ᵗʰ   D) December 21ˢᵗ   ____

28) Babar's clock takes 48 seconds to tick 25 times. How long will it take this clock to tick 13 times?

A) 13 seconds   B) 24 seconds   C) 36 seconds   D) 39 seconds   ____

29) Benedict glued six cubes together (see picture). When it was dry, she accidentally dropped it in the water. How many faces got wet?

A) 24   B) 26   C) 28   D) 30   ____

30) How many rectangles are there in the picture?

A) 13   B) 15   C) 17   D) 19   ____