February 2016
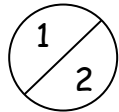# Grade Four Mathematics Contest

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)   7 + 14 + 23 + 39 + 6 + 11 =
     A) 50   B) 100   C) 150   D) 200

2) $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 =$
     A) 1000   B) 10 000   C) 100 000   D) 1 000 000

3)   Khalil reached into his pocket and pulled out $1.70 in change. Which of the following coins could Khalil have to give a total of $1.70?
     A) 4 quarters,   B) 5 quarters,   C) 6 dimes,   D) 15 dimes,
         5 dimes,   3 dimes,   5 nickels   2 nickels
         2 nickels   3 nickels

4)   The number of sides of a hexagon ÷ the number of sides of a triangle + the number of sides of a pentagon =
     A) 1   B) 2   C) 5   D) 7

5)   The temperature was 15 degrees on Monday. A cold snap hit and the temperature dropped 23 degrees on Tuesday, then warmed up on Wednesday and rose 12 degrees. What was the temperature on Wednesday?
     A) –5 degrees   B) 0 degrees   C) 4 degrees   D) 12 degrees

6)   Seven explorers were canoeing at the lake, when along came an alligator.
     All but 4 explorers were scared of the alligator.
     How many explorers were not scared of the alligator?
     A) 3   B) 4   C) 7   D) 9

7) $7! \div 5! + 3! =$ (Hint: $4! = 4 \times 3 \times 2 \times 1$)
     A) 12   B) 48   C) 50   D) 252

8)   What is the number of days in March minus the number of days in 3 weeks added to the number of days in a non-leap year?
     A) 375   B) 377   C) 399   D) 417

9)   Ronaldo's soccer game is 3 days before 4 days after the day before eight days prior to yesterday. If tomorrow is June 22, when is Ronaldo's game?
     A) June 12   B) June 22   C) June 28   D) July 1

10) Three more than 4 less than the triple of 3 equals____.
     A) 5   B) 6   C) 7   D) 8

11) Stephanie sewed 24 stuffed snakes. She sewed 13 that were salmon-coloured, 17 that were silver and 6 that were both salmon and silver. How many were only silver?
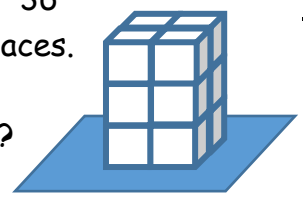   A) 6   B) 11   C) 13   D) 17

12) On April Fool's Day, Vicky entered her classroom to discover that someone had taken off all the legs from chairs and stools! The chairs all had 4 legs, and the stools all had 3 legs. If there were 24 seats in the class, and 92 legs, how many chairs (not stools) did Vicky and her classmates have to put back together?

A) 4 B) 12 C) 20 D) 24

13) What is the sum of the first seven prime numbers?

A) 11 B) 33 C) 58 D) 1 505

14) What is the next term in the following sequence? 1, 2, 6, 15, 31, _____

A) 46 B) 56 C) 65 D) 92

15) During the summer, Jonah decided to learn how to build a spaceship by reading a manual that was 98 pages long! If he started on the top of page 74 and read to the end of the manual, how many pages did he read?

A) 25 B) 27 C) 170 D) 172

16) Lillian's lollipops come in packages of 18. Linus's lollipops come in packages of 24. Lisa bought the same number of lollipops from Linus and Lillian. If none of the packages were opened, what's the least number of lollipops she bought from Linus and Lillian **altogether**?

A) 36 B) 48 C) 84 D) 144

17) The sum of five consecutive numbers is 500. What is the largest of these numbers?

A) 99 B) 100 C) 101 D) 102

18) Yesterday I went to sleep at 10 p.m. The clock started to strike 10 p.m. but I was so tired that I fell asleep before I heard all 10 strikes. Before falling asleep, I heard the clock strike 3 times and that took a total of 10 seconds. How much longer did I need to stay awake if I wanted to hear all 10 strikes before falling asleep?

A) 30 seconds B) 35 seconds C) 40 seconds D) 45 seconds

19) I have a circle and I want to divide it with chords. If 1 chord divides the circle into 2 regions, what is the **maximum** number of regions I can make with 5 chords?

A) 11 B) 13 C) 14 D) 16

20) I can fold 14 paper cranes in 2 days. My sister can fold 21 paper cranes in a week. If we work together, how many paper cranes can we fold in the month of June?

A) 35 B) 300 C) 310 D) 1050

21) What is the smallest number listed below that is divisible by both 6 and 11?

A) 252 B) 891 C) 1 452 D) 1 574

22) How many ways can you rearrange the letters in the word SHARK, not including the way that spells SHARK?
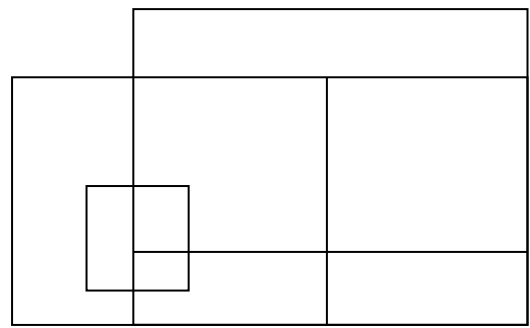
A) 119 B) 120 C) 159 D) 160

23) What is the product of the smallest 2-digit palindrome and the largest 3-digit palindrome?

A) 1089   B) 9999   C) 10989   D) 99999   ____

24) James scored an average of 74 on his first three tests. What would he need to score on his fourth test to raise his average to 80?

A) 80   B) 86   C) 98   D) 100   ____

25) In exactly 672 hours I will be leaving for a vacation! It is currently 12:00 noon on March 1st. On what day will I leave for my vacation?

A) March 28 at midnight   B) March 28 at noon   C) March 29 at midnight   D) March 29 at noon   ____

26) If you write the number 6 in Roman numerals and rotate it 180° four times, which of the following pictures show the result?

A) VI   B) I⩽   C) IV   D) IX   ____

27) A pizza was cut into 12 slices. Mary ate two thirds of the pizza. Kate ate one quarter of the remaining. How many slices did Kate eat?

A) 1   B) 2   C) 3   D) 4   ____

28) Brenda promised to bake Brad some banana bread if he was able to get a sum of 5 when rolling 2 cubic dice. What is the probability that Brad would get his banana bread?

A) $\dfrac{1}{4}$ B) $\dfrac{1}{9}$ C) $\dfrac{1}{12}$ D) $\dfrac{1}{36}$ ____

29) Sandra built a rectangular solid with cubes. Each cube has six faces. She glued the solid to a piece of Bristol board and then painted all the visible faces. How many faces did not have paint on them?

A) 12   B) 24   C) 40   D) 44   ____

30) How many rectangles are in the figure below?

A) 11   B) 20   C) 21   D) 28   ____