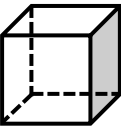# February 2017
Grade Four Mathematics Contest

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) $2 \times 1 \times 1 \times 2 \times 1 \times 2 =$

A) 0   B) 2   C) 4   D) 8

2) $(4 \times 100) + (4 \times 10) - (4 \times 1) =$

A) 436   B) 440   C) 441   D) 444

3) 2 quarters = _____ dimes

A) 5   B) 6   C) 7   D) 8

4) 0, 1, 1, 2, 3, 5, 8, 13, ____

A) 13   B) 21   C) 25   D) 33

5) At the Hollow's Eve Party, 100 creatures carved pumpkins. Sixty-five creatures carved scary pumpkins and 55 creatures carved funny pumpkins. How many creatures carved both scary and funny pumpkins?

A) 10   B) 15   C) 20   D) 120

6) The number of vertices of a cube plus the number of edges of a cube equals to

A) 12   B) 20   C) 36   D) 48

7) Larry is 3 years older than I am. I am 4 years younger than my sister Mary. If Mary is 9 years old, how old is Larry?

A) 5   B) 6   C) 8   D) 9

8) $4 = \_\_\_ + 12 - 5$

A) +11   B) +3   C) –3   D) –11

9) The number of sides of a square + the number of sides of 2 triangles =

A) 4   B) 7   C) 10   D) 14

10) How many prime numbers are there in the twenties?

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

11) Flora the florist sends out 5 bouquets of roses each week. How many days would it take her to send out 15 bouquets?

A) 3   B) 7   C) 15   D) 21

12) The first day of karate class is 10 days before 2 days after 1 day before 4 days after May 21st. When is the first day of karate class?

A) May 14th B) May 15th C) May 16th D) May 17th

13) At Dorothy's birthday party, all of the girls gave each other a hug. If there were 10 girls, how many hugs were given altogether?
A) 10   B) 45   C) 90   D) 100

14) Xavier borrowed 12 books from the library. He forgot all but 5 at the library. How many books did he forget?
A) 4   B) 5   C) 6   D) 7

15) Derek is playing Bean Bozzled with his friends. The box contains jelly beans of different flavors: 7 raspberry, 14 toothpaste, and 5 moldy cheese. Without looking, how many jelly beans does he need to take out to be sure he has at least one raspberry flavoured jellybean?
A) 7   B) 20   C) 21   D) 26

16) Brooke's scores for her first five drills were: 16, 17, 15, 18, and 19. What is her average?
A) 16   B) 17   C) 85   D) 86

17) Dom the Builder loves to build cars and motorcycles for fun. He built 81 vehicles (cars and motorcycles) and used 182 wheels. How many cars in total has he built?
A) 10   B) 11   C) 20   D) 22

18) How many 3-digit palindromic numbers are there between 10 and 299?
A) 18   B) 19   C) 20   D) 21

19) How many ways are there to rearrange the letters in the word WEEKLY, including the way that spells "weekly"?
A) 120   B) 360   C) 480   D) 720

20) The product of a number and its square is 64. What is the number?
A) 2   B) 4   C) 6   D) 8

21) Sequoia has taken 4 exams. So far, her average score is 91. If she gets 100 on each of the next 2 exams, what will her new average be?
A) 91   B) 93   C) 94   D) 96

22) What is one-quarter of one-half of 400?
A) 25   B) 50   C) 100   D) 300

23) Daniel is the second person in front of the third person behind Mark. If there were 7 people in a line up and Mark is in the middle, where is Daniel in the line up?
A) Second   B) Third   C) Fourth   D) Fifth

24) A number is 4 more than 3 less than twice 3. How do you write this number in Roman Numerals?

A) II B) VII C) XVIII D) XXIV

25) Every hour, Byuri's cell phone beeps the same number of times as the hour (if it's 1:00 it will beep once, if it's 5:00 it'll beep 5 times, and so on). She noticed that it took 12 seconds for her phone to beep four times at four o'clock. How long will it take her phone to beep 8 times at 8 o'clock?

A) 20 seconds B) 21 seconds C) 26 seconds D) 28 seconds

26) What is the probability of getting a sum greater than 3 with one throw of two fair hexahedral dice?

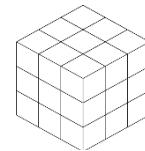A) $\dfrac{1}{6}$ B) $\dfrac{1}{3}$ C) $\dfrac{5}{6}$ D) $\dfrac{11}{12}$

27) At Acme Peak Academy, all the classrooms are numbered consecutively, using odd numbers, from 63 to 369. Last Saturday, classrooms 63 to 103 were being used to write the SMS contest. How many classrooms were not being used at Acme Peak Academy on Saturday?

A) 133 B) 164 C) 266 D) 328

28) Jettsie and Joanie were studying for a test. Every 36 minutes Jettsie stopped to take a snack break. Every 54 minutes Joanie stopped to rest. If they started studying at 10 a.m., at what time would they eat and rest together?
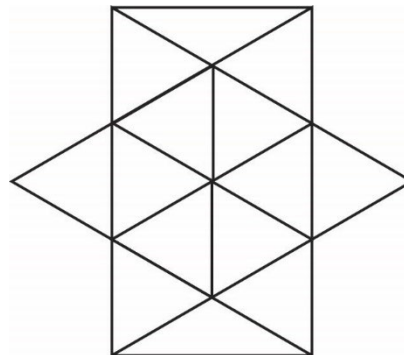
A) 10:40 a.m. B) 10:48 a.m. C) 11:08 a.m. D) 11:48 a.m.

29) A large plastic Rubik's cube is painted and then divided into 27 smaller cubes (see picture). How many of these small cubes have exactly two faces that are covered with paint?

A) 8 B) 9 C) 10 D) 12

30) How many triangles of all sizes are in this diagram?

A) 22 B) 24 C) 26 D) 28