Fourth Annual
Calgary Elementary School Mathematics Contest
April 29, 2015

LEVEL-1 CONTEST

Instructions:

• Transcribe your Contest ID number into the Contest ID box on the separate answer sheet.
• You have 50 minutes to answer the 20 questions.
• Record your answer for each question on the separate answer sheet.
• There is no penalty for incorrect answers, so answer every question.
• Good luck!

Sponsors:

PART A: Record the correct answer on the separate answer sheet. Each correct answer is worth **5 points.**

1. What is the largest number in the following list $\{2.015, 2.0105, 2.0015, 2.005\}$?
   (a) 2.015   (b) 2.0105   (c) 2.0015   (d) 2.005

2. A chocolate bar weighs 80 grams. Five friends agree to share the chocolate bar equally. How many grams of chocolate does each friend get?
   (a) 20   (b) 16   (c) 10   (d) 8

3. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$?
   (a) $\frac{6}{24}$ (b) $\frac{1}{24}$ (c) $\frac{6}{2}$ (d) $\frac{3}{2}$

4. The temperature in Vancouver is 20°C. In Calgary it is 6°C colder than in Vancouver. In Edmonton it is 5°C colder than in Calgary. What is the temperature in Edmonton?
   (a) 8°C   (b) 6°C   (c) 9°C   (d) 11°C

5. The product of two whole numbers is 5, what is their sum?
   (a) 10   (b) 6   (c) 5   (d) 4

6. I bought some candies on Friday. I ate half of them right away, and ate 5 more on Saturday. There were only 3 left for Sunday. How many candies did I buy on Friday?
   (a) 13   (b) 18   (c) 11   (d) 16

7. Nisha wakes up at 7:38AM. Her first class starts at 9:00AM. How many minutes does she have to get to school if she wants to be on time for her class?
   (a) 162 min   (b) 122 min   (c) 82 min   (d) 62 min

8. What is the next number in the sequence $2, 5, 10, 17, 26, ?$
   (a) 37   (b) 35   (c) 33   (d) 31

9. Ahmed scored 17 out of 20 on his math quiz. What percent did he score?
   (a) 65%   (b) 75%   (c) 85%   (d) 95%

10. $(2 + 6)^2 =$?
    (a) 28   (b) 16   (c) 10   (d) 64

PART B: Record the correct answer on the separate answer sheet. Each correct answer is worth **6 points.**
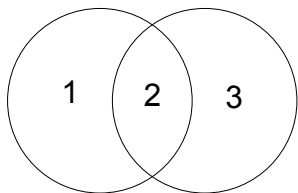
11. A rectangle is twice as wide as it is tall. The perimeter of the rectangle is 24cm. What is the area of the rectangle?
    (a) 18cm²   (b) 24cm²   (c) 32cm²   (d) 36cm²

12. Apples cost 75 cents each. If I spent \$5.25 on apples, how many apples did I buy?
    (a) 7   (b) 8   (c) 9   (d) 10

13. With two circles we can create at most three regions. At most how many regions can be obtained by using two equilateral triangles?

    (a) 2   (b) 3   (c) 5   (d) 7

14. What is the smallest number of squares, each with a perimeter of 4, needed to completely cover a larger square with a perimeter of 8?
    (a) 2   (b) 4   (c) 8   (d) 16

15. The sum of the squares of the first 10 positive whole numbers is 385. What is the sum of the squares of the first 9 positive whole numbers?
    (a) 245   (b) 285   (c) 305   (d) 375

PART C: Record the correct answer on the separate answer sheet. Each correct answer is worth **8 points.**

16. A certain jar weighs 1800 grams when it is filled with water. The same jar weighs 2900 grams when filled with sand. The sand is twice as heavy as water. How much does the empty jar weigh?
    (a) 700g   (b) 900g   (c) 1100g   (d) 1300g

17. Jack's parents had a plan to repaint their house in 3 weeks. In the 1st week, they completed $\frac{1}{4}$ of the total work. In the second week they completed $\frac{2}{3}$ of the unfinished work. How much of the total work is left to be done in the 3rd week?
    (a) $\dfrac{1}{5}$ (b) $\dfrac{1}{4}$ (c) $\dfrac{1}{3}$ (d) $\dfrac{1}{2}$

18. Lucas has some chickens and rabbits, there are 4 heads and 14 legs in all. How many rabbits does lucas have?
    (a) 1   (b) 2   (c) 3   (d) 4

19. A cat runs 2 times as fast as a mouse. The mouse runs at 3 meters per second and is 12 meters from the cat. How many seconds will it take for the cat to catch the mouse?
    (a) 6 sec.   (b) 4 sec.   (c) 3 sec.   (d) 2 sec.

20. A restaurant bought some rice on Monday. Each day the restaurant used 15 kg of rice. After 4 days, there was $\frac{1}{4}$ of the rice left. How many kg of rice did the restaurant buy on Monday?
    (a) 60kg   (b) 100kg   (c)70kg   (d) 80kg