

Special Edition Calgary Elementary School Mathematics Contest April 21, 2021

LEVEL-1 CONTEST

Name:__

MARKERS' USE ONLY	
Part A	
×5	
Part B	
×6	
Part C	
×8	
Total	

Instructions:

• You have 50 minutes to answer the 20 questions.

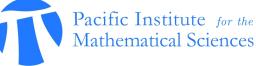
• Circle your answer for each question.

• There is no penalty for incorrect answers, so answer every question.

 \bullet Good luck!

Sponsors:





PART A: Each correct answer is worth 5 points.

- 1. $(19 + 20 + 21 + 22 + 23) \div 5 = ?$ (a) 20 (b) 21 (c) 22 (d) 23
- 2. What is one quarter of one third of 36? (a) 3 (b) 4 (c) 9 (d) 12
- 3. George writes an equation

$$2?5+?56 = 591$$

What number goes in ?, the square with the question mark?

(a) 2 (b) 3 (c) 4 (d) 5

- 4. A candy store is having a "Buy five, get one free" sale. If one candy costs 20¢, how many candies can you buy with \$6.00?
 - (a) 24 (b) 30 (c) 36 (d) 40
- 5. Which of the following numbers is the greatest? (a) 2 + 0 + 2 + 1 (b) $2 \times 0 \times 2 \times 1$
 - (c) $(2+0) \times (2+1)$ (d) $(2 \times 0) + (2 \times 1)$
- 6. Carla ate ³/₄ of a 200 gram granola bar. How many grams did she eat?
 (a) 100g
 (b) 120g
 (c) 150g
 (d) 180g
- 7. I work 15 hours per day, four days per week. If I make \$900 in a week, how much do I make per hour?
 - (a) 10 (b) 12.50 (c) 14 (d) 15
- 8. What is the next number in the sequence 1, 1, 1, 3, 5, 9, 17, ...
 (a) 22 (b) 27 (c) 31 (d) 35
- 9. The product of two whole numbers is 7. What is their sum?

(a) 14 (b) 10 (c) 8 (d) 7

10. Four people made the following statements about the number 347:

Euclid: The sum of the digits is 14. Socrates: The units digit is 7. Diogenes: All digits are odd. Plato: All digits are different.

- Who was wrong?
- (a) Euclid (b) Socrates (c) Diogenes (d) Plato

- 11. Henry writes all the numbers from 100 to 200 (including 100 and 200). How many times does he write the digit 2?
 - (a) 10 (b) 11 (c) 20 (d) 21

- 12. The area of a rectangle is 30cm². If the length is doubled and the width is tripled, what is the area of the new rectangle?
 - (a) 60cm^2 (b) 90cm^2 (c) 150cm^2 (d) 180cm^2

- 13. The sum of three consecutive even numbers is 36. What is the middle number?
 - (a) 8 (b) 12 (c) 16 (d) 20

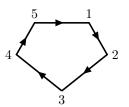
- 14. In an airplane the rows are numbered 1 to 20, except there is no row 10 and no row 15. All rows except row 5 have six seats. Row 5 has eight seats. What is the total number of passenger seats?
 - (a) 110 (b) 120 (c) 122 (d) 125

- 15. Amy has three bags of candies with the same amount in each bag. She randomly takes a total of ten candies from her bags and gives them to her friends. She now has a total of 32 candies altogether. How many candies were in each bag to start with?
 - (a) 12 (b) 14 (c) 16 (d) 18 (d)

16. A straight line AD is divided into three parts as shown in the picture.

If AD = 90cm, AC = 55cm, and BD = 40cm, what is the length of BC? (a) 4cm (b) 5cm (c) 8cm (d) 9cm

- 17. A 24 hour digital clock shows the time 12:12. What is the least amount of time it would take for the clock to show the same four digits but in reverse order (i.e. 21:21)?
 - (a) 9 hrs, 9 min (c) 9 hrs, 10 min (d) 10 hrs, 10 min (d) 10 hrs, 9 min
- 18. A frog jumps around a circle of five rocks in a clockwise direction, as shown below. For example, if the frog starts at rock 1 and jumps 7 times, it will end up on rock 3. If the frog starts at rock 1 and jumps 48 times, where does it end up?



- (a) Rock 1 (b) Rock 3 (c) Rock 5 (d) Rock 4
- 19. Mandy drew 10 triangles on Monday, and each day she draws 2 triangles more than what she drew on the previous day. How many triangles has she drawn by the end of Saturday?

(a)
$$60$$
 (b) 70 (c) 80 (d) 90

20. Two 10cm by 3cm rectangles are put together to form an L-shaped figure as shown. What is the area of the unshaded region?

