

Special Edition Calgary Elementary School Mathematics Contest April 21, 2021

## LEVEL-1 CONTEST

## Name: ANSWER KEY

MARKERS' USE ONLY	
Part A	
<u>10</u> _×5	50
Part B	
<u>5</u> ×6	30
Part C	
×8	40
Total	120

## 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.
- 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

(a) 24

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

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

- 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?
  - (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  $\frac{3}{4}$  of a 200 gram granola bar. How many grams did she eat?

(d) 180g

(d) \$15

(d) 35

(a) 100g (b) 120g (c) 150g

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

8. What is the next number in the sequence  $1, 1, 1, 3, 5, 9, 17, \ldots$ 

(a) 
$$22$$
 (b)  $27$ 

(c) 31

9. The product of two whole numbers is 7. What is their sum?

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  $30 \text{cm}^2$ . If the length is doubled and the width is tripled, what is the area of the new rectangle?
  - (a)  $60 \text{cm}^2$  (b)  $90 \text{cm}^2$  (c)  $150 \text{cm}^2$  (d)  $180 \text{cm}^2$

- 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?

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 (b) 10 hrs, 10 min (c) 9 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?

