



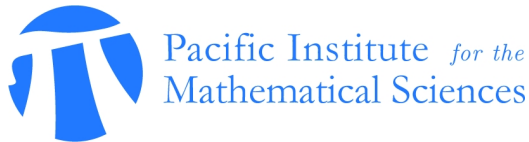
Third Annual  
Calgary Elementary School  
Mathematics Contest  
April 30, 2014

LEVEL-2 CONTEST

Instructions:

- Write your name, student ID and school name 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. Find the missing number:  $\frac{33 \times 44}{?} = 3 \times 4$   
(a) 11    (b)  $3 \times 4$     (c)  $11 \times 11$     (d) 34
2. Which of the following products is odd?  
(a)  $325 \times 27$     (b)  $632 \times 86$     (c)  $521 \times 236$     (d)  $64 \times 83$

3. John has 2 toonies, 3 loonies, 3 quarters, 5 dimes and 10 nickels. Total money he has is the same as \_\_\_ quarters.  
(a) 32    (b) 35    (c) 38    (d) 40
4. The  $15^{th}$  power of 3 is the \_\_\_ power of 27.  
(a)  $4^{th}$     (b)  $5^{th}$     (c)  $6^{th}$     (d)  $7^{th}$
5. I work 7 hours per day and 5 days a week. If I make \$8.00 per hour, how much do I make in a week? (a) \$40.00    (b) \$56.00    (c) \$200.00    (d) \$280.00
6.  $\frac{3}{\frac{1}{2} + \frac{1}{4}} = ?$   
(a) 2    (b) 3    (c) 4    (d) 6
7. The largest number in the list {1.1001, 1.1011, 1.0111, 1.1101} is  
(a) 1.1001    (b) 1.1011    (c) 1.0111    (d) 1.1101
8. My watch reads 7:47. What will my watch read 3 hours and 15 minutes later?  
(a) 10:02    (b) 10:62    (c) 11:02    (d) 11:47
9. One soft drink costs 60 cents and one hamburger costs 75 cents. Ten soft drinks and four hamburgers will cost \_\_\_\_.  
(a) \$6.00    (b) \$6.75    (c) \$9.00    (d) \$12.50
10. Adding 3 to a certain number gives the same result as multiplying that number by 2. The number is \_\_\_\_.  
(a) 2    (b) 3    (c) 5    (d) 6

**PART B:** Record the correct answer on the separate answer sheet. Each correct answer is worth **6 points**.

11. The area of a rectangle is  $20\text{cm}^2$ . If the length of the rectangle is tripled and the width of the rectangle is doubled, what is the area of the new rectangle?

- (a)  $40\text{cm}^2$  (b)  $60\text{cm}^2$  (c)  $100\text{cm}^2$  (d)  $120\text{cm}^2$

12. Which of the numbers below can be written as a product of three even numbers?

- (a) 140 (b) 142 (c) 144 (d) 146

13.  $12 \times \left(\frac{1}{2} + \frac{1}{3} + \frac{1}{4}\right) = ?$

- (a) 72 (b) 13 (c)  $\frac{4}{3}$  (d)  $\frac{1}{2}$

14. The radius of a circle is  $20\text{cm}$ . A line segment is drawn between two points on the circle. The length of this line segment could not be

- (a)  $50\text{cm}$  (b)  $40\text{cm}$  (c)  $2\text{cm}$  (d)  $1\text{cm}$

15. How many positive whole numbers less than 40 can be written as the product of two consecutive whole numbers?

- (a) 5 (b) 6 (c) 7 (d) 8

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

16. It costs  $\$42.00$  to cut a long piece of wood into seven pieces. How much does it cost if you want to cut it into 10 pieces? (Assuming that the cost for each cut is the same.)

- (a)  $\$60.00$  (b)  $\$63.00$  (c)  $\$70.00$  (d)  $\$75.00$

17. Chris has an average of 81 after the first two tests. On the third test he scores 90. Find the average of all three tests done by Chris.

- (a) 86 (b) 85 (c) 84 (d) 83

18. The points A, B and C lie on a straight line and A is not between B and C. The distance between A and B is 15 and the distance between A and C is 8. What is the distance between B and C?

- (a) 23 (b) 20 (c) 10 (d) 7

19. A whole number is a perfect square if it can be expressed as the product of two equal whole numbers. For example 16 is a perfect square since  $16 = 4 \times 4$ . How many perfect squares are greater than 0 and less than 400?

- (a) 10 (b) 18 (c) 19 (d) 20

20. Tom paints a wall in 3 hours. Sheik paints the same wall in 7 hours. Working together, in how many hours could they paint the same wall?

- (a) 1 hr 30 min (b) 2 hr (c) 2 hr 6 min (d) 2 hr 15 min