February 2018
Grade Three 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: _____

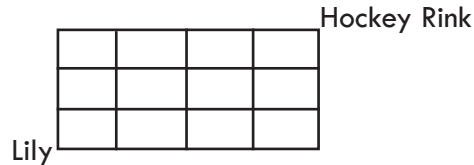Score: /30

1) $8 + 17 + 12 + 1 + 3 + 9$

A) 10   B) 20   C) 40   D) 50   _____

2) Jenny baked three dozen cupcakes for her class. How many cupcakes did she bake?

A) 12   B) 24   C) 36   D) 48   _____

3) Find the next two terms in this sequence: 25, 22, 19, 16, ____ ,____

A) 19, 17   B) 15, 10   C) 13, 10   D) 8, 5   _____

4) Today is December 15th. In one week, what day will it be?

A) December 17th   B) December 20th   C) December 22nd   D) December 29th   _____

5) Place these numbers in order from least to greatest: −2, 13, 0, 6, 27. What is the second smallest number?

A) 27   B) 0   C) −2   D) 13   _____

6) 3 nickels + 5 dimes + 1 quarter = _____ cents

A) 90 cents   B) 75 cents   C) 50 cents   D) 15 cents   _____

7) Twelve cows were eating grass in the field. All but 7 returned to the barn. How many cows returned to the barn?

A) 5   B) 7   C) 12   D) 19   _____

8) Hannah is going to the winter carnival three days after one week after the day before February 11th. When will she go to the carnival?

A) February 6th   B) February 20th   C) February 21st   D) February 28th   _____

9) David is scheduled to perform 94 minutes after the school concert starts. If the school concert starts at 6 p.m., when is David scheduled to perform?

A) 7:00 p.m.   B) 7:30 p.m.   C) 7:34 p.m.   D) 8:34 p.m.   _____

10) $2 \times 2 \times 2 \times 5 \times 5 \times 5 =$

A) 200   B) 500   C) 1000   D) 10 000   _____

11) Yolanda brought a yellow marble and a green marble to show her friend Justin. She gave Justin the marble that is not yellow, leaving Yolanda with the _____ marble.

A) green   B) purple   C) red   D) yellow   _____

12) The number 2018 is divisible by:

A) 100   B) 10   C) 3   D) 2   _____

13) Kit had a long chocolate bar he wanted to share with six of his friends. How many parallel cuts should Kit make so that everyone gets one piece?

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

14) Lily wants to play hockey at the nearby rink. She can only travel north (up) and east (right) on a 3×4 grid. How many different pathways can she take to the rink?

Hockey Rink

Lily

A) 35   B) 34   C) 20   D) 15   ____

15) Delia read 11 pages of her book on Monday, 7 pages on Tuesday, 9 pages on Wednesday and 13 pages on Thursday. What was the average number of pages Delia read each day?

A) 9   B) 10   C) 11   D) 13   ____

16) $4! \div 2! = ?$ (Hint: $5! = 5 \times 4 \times 3 \times 2 \times 1$)

A) 12   B) 24   C) 36   D) 48   ____

17) All 18 guests at Evan's birthday party ate chocolate, vanilla, or both chocolate and vanilla ice cream. Fifteen ate chocolate ice cream and 5 ate vanilla ice cream. How many ate both flavours?

A) 1   B) 2   C) 18   D) 23   ____

18) $14 + 15 + 16 + 17 = 24 + 25 + 26 + 27 - \underline{?}$

A) 40   B) 30   C) 20   D) 10   ____

19) In your colossal cookie jar there are 53 chocolate chip cookies, 23 sugar cookies and 67 rainbow cookies. What is the least number of cookies you would need to take out to make sure you have removed at least one chocolate chip cookie without looking?

A) 42   B) 67   C) 91   D) 200   ____

20) Carrie's grandfather clock took 28 seconds to strike 8 o'clock. How long does her clock take to strike 6 o'clock?

A) 10 seconds   B) 20 seconds   C) 25 seconds   D) 112 seconds   ____

21) Sweetie's mom baked a pie and cut it into 12 pieces. She was very hungry so she ate $\frac{3}{4}$ of the pie. How many pieces were left?

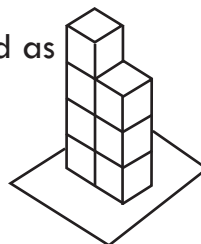A) 3   B) 4   C) 9   D) 12   ____

22) Teslo was organizing his collection of flying cars. If he had numbered his cars with only odd numbers, from 17 to 37, how many flying cars did he have in his collection?

A) 19   B) 17   C) 13   D) 11   ____

23) The sum of all the factors of 18 is:

A) 6   B) 30   C) 39   D) 40   ____

24) Pablo built a tower out of seven large cubes and glued it onto a board as shown. He decided to paint his tower. If one jar of paint could cover two square faces, how many jars of paint would Pablo need?

A) 12   B) 14   C) 16   D) 18   ____

25) At the chess tournament, all of the children played one match with each other. If there are 14 children, how many chess matches were played in total?

A) 78   B) 91   C) 196   D) 182   ____

26) Jillian was in line to watch the Star Peace movie. She was four places in front of one place behind the 6th person in line. How many people were in **FRONT** of Jillian?

A) 1   B) 2   C) 3   D) 7   ____

27) Mort bought a new video game for $28.59. He paid the first amount with his gift card valued at $9.99. Then, he paid the remaining amount with a $20 bill. How much change should he receive from the cashier?

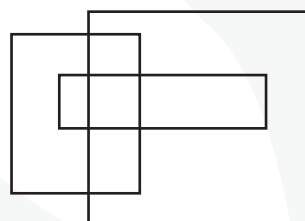A) $3.00   B) $2.50   C) $2.00   D) $1.40   ____

28) What is the product of the hundred's digit in 3472, and the ten's digit in 1053?

A) 6   B) 9   C) 20   D) 21   ____

29) The password for Mr. Locke's safe is an odd number and a three-digit palindrome. When you subtract 17 from his password, it turns into a perfect square. Which of the options below is Mr. Locke's password?

A) 111   B) 121   C) 161   D) 191   ____

30) How many rectangles of all sizes are in the diagram?

A) 14   B) 15   C) 16   D) 17   ____