



Spirit of Math[®]

s c h o o l s

February 2017

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

2017 SMS Grade 3 Contest

- 1) $9 + 8 + 7 + 11 + 3 + 2 =$
A) 20 B) 40 C) 60 D) 80
- 2) Order these integers from least to greatest: -11, 0, -22, 13, 5. Which integer is in the middle?
A) -22 B) -11 C) 0 D) 5
- 3) Which of the following months has the most number of days?
A) January B) February C) April D) November
- 4) $11 \times 2 \times 5 \times 0 =$
A) 250 B) 110 C) 18 D) 0
- 5) A palindrome is a number or a word that is read the same backwards and forwards. How many 2-digit palindromic numbers are there between 1 and 50?
A) 2 B) 3 C) 4 D) 5
- 6) Which of the following is equal to 1000?
A) 2×5 B) 2^5 C) $2 \times 2 \times 5 \times 5$ D) $2 \times 2 \times 2 \times 5 \times 5 \times 5$
- 7) What is 3 more than 2 more than the number of sides of a pentagon?
A) 5 B) 6 C) 7 D) 10
- 8) Baby Bernice has two favourite stuffed animals: a teddy bear and a rabbit. If one of them is not a teddy bear, which one is the other one?
A) Baby B) Teddy Bear C) Rabbit D) Rubber Duck
Bernice
- 9) Sam's scores on his integer drills were 9, 12, 11, and 8. What was his average score?
A) 10 B) 20 C) 30 D) 40
- 10) The factorial symbol (!) means to multiply a series of decreasing numbers until you get to 1. For example: $4! = 4 \times 3 \times 2 \times 1$. What is the value of $2! + 3!$?
A) 2 B) 4 C) 5 D) 8
- 11) Melodie bought some snacks at the convenience store. She bought a bag of chips for \$1.24, fruit candies for \$2.16, and chocolate for \$1.35. If she paid with a \$5 bill, how much change should Melodie get?
A) 25¢ B) 30¢ C) 75¢ D) \$1.00
- 12) Jeremy has some cards with digital numbers. All of the numbers are prime. Which digital number is still a prime number when read upside down?
A) 89 B) 59 C) 29 D) 19



- 13) You are given a bag of 20 candy canes. There are 19 red and 1 green. If you cannot see the colours inside the bag, how many candy canes do you need to take out to be sure that a red one has been taken out? 
- A) 1 B) 2 C) 19 D) 20
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- 14) $56 - 25 = ?$ (answer in Roman Numerals)
- A) III B) VVVVVIII C) IXXX D) XXXI
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- 15) Odin was reading 101 Magic Tricks. He started reading at the top of page 20 and stopped at the bottom of page 44. How many pages did he read?
- A) 19 B) 25 C) 26 D) 64
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- 16) Jackson wanted to go to Nolan's house to play floor hockey. If he traveled on a 3×4 grid, how many ways could he take? He could travel only east (right) and north (up).
- A) 1 B) 34 C) 35 D) 36
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- 17) Three girls were baking cupcakes. Connie baked 3 dozen. Daisy baked a dozen. Amanda baked half a dozen. Altogether, how many cupcakes do they have?
- A) 12 B) 42 C) 54 D) 66
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- 18) How many 2-digit prime numbers have the digit 2 in it?
- A) 1 B) 2 C) 3 D) 4
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- 19) If 2 glinks cost \$18, and 1 glink and 1 zlop together cost \$11, how much does 1 zlop cost?
- A) \$2 B) \$7 C) \$10 D) \$29
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- 20) If the first day of the month is Monday, then what day of the week is the 20th day of the month?
- A) Sunday B) Monday C) Thursday D) Saturday
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- 21) The Fair and Square basketball team had an average score of 85 for their first five games. If the team gets 97 on their next game, what would the new average be?
- A) 85 B) 87 C) 97 D) 182
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- 22) The Oh Yays baseball team just won their final game of the season. If each of the 15 players celebrated by giving each other a hip bump, how many hip bumps were given altogether? 
- A) 105 B) 210 C) 225 D) 300
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- 23) Twenty-two students in Mr. Frozen's class were skating at the skating rink. All but 12 didn't slip and fall. How many students slipped and fell?
- A) 0 B) 10 C) 12 D) 22
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24) Marilyn's birthday is 4 days after 3 days before 2 days after a week after March 20th. When is Marilyn's birthday?
 A) March 29 B) March 30 C) March 31 D) April 1

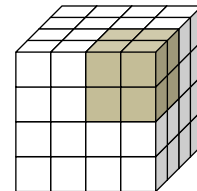
25) All the Grade 3 students have certain talents: 17 sing, 11 dance, and 15 play a musical instrument. Five students sing, dance, and play a musical instrument. Two of the students only sing and dance. Two of the students only sing and play an instrument. No one just dances and plays an instrument. How many students are in the class?
 A) 5 B) 29 C) 38 D) 43

26) It takes 20 seconds for a grandfather clock to strike 5 times at 5:00. When the same clock takes 40 seconds to strike the hour, what time is it?
 A) 2:00 B) 8:00 C) 9:00 D) 10:00

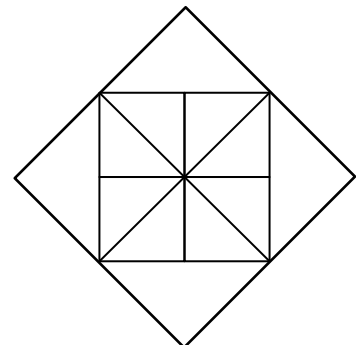
27) Ashley is having a birthday party in 45 hours. If it is now 3:00 PM, when is Ashley having her party?
 A) 12:00 PM B) 6:00 PM C) 9:00 PM D) 12:00 AM

28) Joshua's mom baked a pie. Joshua's brother ate $\frac{1}{3}$ of the pie. Joshua's sister ate $\frac{1}{2}$ of the remaining pie. Then Joshua ate $\frac{1}{2}$ of what is remaining. How much pie is left?
 A) $\frac{1}{3}$ B) $\frac{1}{6}$ C) $\frac{1}{18}$ D) 0

29) Angie built a $4 \times 4 \times 4$ structure made of little cubes, then removed a $2 \times 2 \times 2$ piece of it (see the picture to the right). How many little cubes are now in Angie's structure?
 A) 8 B) 56 C) 64 D) 72



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



A) 12 B) 14 C) 18 D) 20

