

Math Reviewer - Set A

1. What is 365,412 rounded to the nearest thousand?
 - a. 360,000
 - b. 370,000
 - c. 365,000
 - d. 366,000
2. Write "thirty-three billion, thirty thousand, thirty" in numerical form.
 - a. 33,030,030
 - b. 30,030,030,030
 - c. 33,000,030,030
 - d. 33,003,000,030
3. There are 78 boys and 91 girls in the freshman class at St. Matthew's Academy, 66 boys and 99 girls in the sophomore class, 70 boys and 102 girls in the junior class, and 80 boys and 88 girls in the senior class. What is the total enrollment?
 - a. 654
 - b. 664
 - c. 674
 - d. 647
4. An elementary school library has 2,519 fiction books, 1,674 non-fiction books, 545 reference books, and 115 magazines. What is the total number of reading materials in the library?
 - a. 4,753
 - b. 4,853
 - c. 4,863
 - d. 4,763
5. Father asked Liam to check the electric bill. If the previous month's reading of the electric meter was 15,195 kw-hour and the present reading is 15,411 kw-hour, how many kilowatt hours of electricity were used during the month?
 - a. 206
 - b. 216
 - c. 226
 - d. 236

6. Ella's average reading rate is 236 words per minute. How many words can she read in a quarter of an hour?
- 59
 - 944
 - 1,180
 - 3,540
7. A class with 35 pupils had 1 absentee on Monday, 2 on Tuesday, 3 on Wednesday, 1 on Thursday, and 3 on Friday. Find the average daily attendance for the week.
- 2
 - 31
 - 32
 - 33
8. In 14 basketball games, Peter scored 97 field goals (2 points each), 30 free throws (1 point each), and 14 three-point shots. What is his average points per game?
- 10
 - 17
 - 19
 - 21
9. The total enrollment in the 4 freshman sections at Gabriela Silang National High School is 140 students; in 4 sophomore sections, 135 students; in 4 junior sections, 130 students; and in 3 senior sections, 105 students. What is the average student enrollment per section for the entire school?
- 34
 - 35
 - 119
 - 128
10. San Agustin Appliance Store purchased the following last month: 5 washing machines at ₱22,995 each; 3 air conditioners at ₱49,000 each; 4 television sets at ₱45,590 each; and 8 vacuum cleaners at ₱11,995 each. What was the total cost of the merchandise?
- 540,295
 - 540,300
 - 540,395
 - 540,405

11. A school placed an order for 450 umbrellas, of which $\frac{1}{2}$ were blue, $\frac{1}{3}$ were red, and the rest were green. How many green umbrellas were ordered?
- 75
 - 150
 - 225
 - 300
12. If $\frac{5}{6}$ of a number is 75, then $66\frac{2}{3}\%$ of the same number is:
- 20
 - 40
 - 60
 - 80
13. Given that: $A = 12 \div 4 - 3$; $B = (8 - 4) - 2$; and $C = 4 - 3 \times 2$. Which of the following equations is true?
- $A = B + C$
 - $A = B - C$
 - $A = B \times C$
 - $C = A + B$
14. Given that: $A = 2^3 \times 2$; $B = 3 + 6 \div 3$; $C = 10 - (8 - 2)$. Which of the following equations is true?
- $A < C$
 - $A = C^2$
 - $A = B + C$
 - $A = B^2 + C$
15. Find the number of days from June 16 to July 15.
- 28
 - 29
 - 30
 - 31
16. Of the fractions $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{6}$, and $\frac{3}{7}$, the largest one is:
- $\frac{1}{2}$
 - $\frac{2}{3}$
 - $\frac{3}{6}$
 - $\frac{3}{7}$

17. To find how much bigger one number is than another, the operation we use is:
- Addition
 - Subtraction
 - Multiplication
 - Division
18. The short-cut method of multiplying 327 by 25 is to annex two zeroes to 327 and
- Divide by 4
 - Divide by 25
 - Add 25
 - Multiply by 4
19. To change $\frac{4}{5}$ to decimals, we
- Divide 5 by 4
 - Divide 4 by 5
 - Multiply 4 by 5
 - Subtract 4 by 5
20. When the product of 3, 4, and 5 is divided by their sum, the result is
- 3
 - 4
 - 5
 - 12
21. The average of the numbers 4, 7, 10, 13, 16 is equal to
- Their common difference
 - The middle number
 - Their product
 - Their sum
22. The smallest number that can be divided by 2, 4, 7, and 12 without leaving a remainder is
- 56
 - 72
 - 84
 - 672

23. If it takes Eunice 3 hours and 50 minutes to complete a third of a job, how long will it take her to complete the whole job?
- 1 hour and $16\frac{2}{3}$ minutes
 - 8 hours and 30 minutes
 - 9 hours and 50 minutes
 - 11 hours and 30 minutes
24. When 1 is divided by a positive fraction less than $\frac{1}{3}$, the result is
- $\frac{1}{3}$
 - Less than $\frac{1}{3}$
 - Less than 3
 - Greater than 3
25. On a Math test, 80% of the members of a class had passing grades. Of these, 75% had the minimum passing grade. What percent of the class had the minimum passing grade?
- 20%
 - 40%
 - 60%
 - 80%
26. Two hundred eighty-four students are to be assigned to 7 classes such that, as much as possible, the classes will be of the same size. The result will be that
- No class will have more than 40 students
 - All classes will be of the same size
 - Four classes will be larger than the others
 - Two classes will be smaller than the others
27. Which one of the following statements is correct?
- When an odd number is divided by an even number, there is always no remainder.
 - When an odd number is subtracted from an odd number, the result is always even.
 - When an odd number is multiplied by an odd number, the result is always even.
 - When an even number is added to an odd number, the result is always odd.

28. An auditorium is $\frac{1}{2}$ full. After 30 people in the audience left, the auditorium became $\frac{3}{8}$ full. What is the seating capacity of the auditorium?
- 125
 - 180
 - 200
 - 240
29. If the numerator of a fraction is doubled and its denominator is halved, the resulting fraction is equal to the original...
- Multiplied by 4
 - Divided by 2
 - Multiplied by $\frac{1}{4}$
 - Multiplied by 2
30. Find the number of halves in $\frac{2}{3}$.
- $\frac{2}{3}$
 - $\frac{3}{2}$
 - $\frac{4}{3}$
 - $\frac{2}{6}$
31. A mixture contains 6 liters of water and 3 liters of alcohol. If 6 more liters of water is added, what part of the mixture is alcohol?
- $\frac{1}{4}$
 - $\frac{1}{5}$
 - $\frac{3}{5}$
 - $\frac{1}{3}$
32. What is the average of 23 consecutive integers?
- The difference between the first and the last
 - The sum of the first and last
 - The 12th integer
 - Twice the first

33. A number in which the sum of the digits exceeds the tens digit by 7 is
- 767
 - 168
 - 384
 - 689
34. A plane travels at a speed of 640 kph. How many kilometers does the plane cover in 45 minutes?
- 480 km
 - 540 km
 - 420 km
 - 600 km
35. Italy's Frecciarossa train travels at a speed of 300 kph. How many kilometers can it cover in 1 hour and 45 minutes?
- 345 km
 - 435 km
 - 525 km
 - 540 km
36. The average of two fractions is $\frac{3}{8}$. One of the fractions is $\frac{1}{4}$. Find the other fraction.
- $\frac{1}{2}$
 - $\frac{3}{4}$
 - $\frac{2}{8}$
 - $\frac{1}{8}$
37. The ratio between the difference of 27 and 18, and their sum is
- 1:5
 - 1:9
 - 5:1
 - 2:3
38. At 9 am, the shadow of a house is 6 meters. At the same time the shadow of a 10-meter-tall tree is 7 meters and 50 centimeters. Find the height of the building.
- 6.75 meters
 - 8 meters
 - 9 meters
 - 9.5 meters

39. The ratio of 2 yards to 2 feet is:
- a. 12:1
 - b. 8:2
 - c. 4:1
 - d. 3:1
40. The ratio of 6 inches to 6 ft is:
- a. 1:1
 - b. 1:9
 - c. 1:12
 - d. 1:18
41. The ratio used in making the scale drawing of a machine part is 1:24. The length of the part is 12 feet. The number of inches required to show this length is:
- a. 5 inches
 - b. 6 inches
 - c. $2\frac{1}{2}$ inches
 - d. 3 inches
42. A tank is 21 inches long, 10 inches wide, and 11 inches high. If one gallon contains 231 cu. inches, find the number of gallons the tank can hold.
- a. 5
 - b. 10
 - c. 12
 - d. 31
43. A train was scheduled to arrive at 12:25 PM but was 50 minutes late. The train will arrive at:
- a. 11:35 AM
 - b. 11:35 PM
 - c. 1:15 AM
 - d. 1:15 PM
44. Vincent gets up at 5:15 AM every morning. At what time must he go to sleep if he is to get $8\frac{1}{2}$ hours of sleep?
- a. 7:45 PM
 - b. 8:45 PM
 - c. 9:45 PM
 - d. 10:45 PM

45. If the product of four integers is negative, then, at most, how many of the four integers could be negative?
- One
 - Two
 - Three
 - Four
46. If 10 parts of alcohol are mixed with 15 parts of water, what part of the mixture is alcohol?
- $\frac{2}{3}$
 - $\frac{1}{4}$
 - $\frac{2}{5}$
 - $\frac{3}{5}$
47. Which of the following fractions is closest to $\frac{1}{5}$?
- $\frac{3}{5}$
 - $\frac{3}{4}$
 - $\frac{3}{20}$
 - $\frac{7}{20}$
48. What part of a gallon is 4 pints? (2 pints = 1 quart; 4 quarts = 1 gallon)
- $\frac{1}{2}$
 - $\frac{2}{6}$
 - $\frac{2}{3}$
 - $\frac{7}{8}$
49. If $(x - 4) + 4 = 6$, what is the value of x ?
- 2
 - 4
 - 6
 - 8

50. Which of the following numbers has the digit 8 in the tenths place?
- a. 0.008
 - b. 0.080
 - c. 0.800
 - d. 80.00
51. If $3x + y = 5$, what is the value of $6x + 2y$?
- a. 6
 - b. 9
 - c. 10
 - d. 15
52. Cami and Mark each bought some pens and an eraser. Cami paid ₱13 for 3 pens and 1 eraser. Mark paid ₱9 for 2 pens and 1 eraser. They bought the same kind of pens and erasers. What is the price of one pen?
- a. ₱4.00
 - b. ₱4.50
 - c. ₱6.00
 - d. ₱7.50
53. Ten kilograms is approximately equal to how many pounds? ($1 \text{ kg} \approx 2.2 \text{ lbs}$)
- a. 0.22
 - b. 22
 - c. 4.55
 - d. 12.2
54. The distance between two cities in the Philippines is 8 kilometers. What is the approximate distance in miles? ($1.6 \text{ km} \approx 1 \text{ mile}$)
- a. 0.2
 - b. 5
 - c. 8
 - d. 12
55. Four gallons of milk is equal to how many quarts? ($1 \text{ liter} \approx 1.1 \text{ quart}$; $4 \text{ quarts} \approx 1 \text{ gallon}$)
- a. 12
 - b. 16
 - c. 40
 - d. 48

56. Two hundred centimeters is approximately equal to _____. (2.54 cm \approx 1 inch; 1 yard \approx 36 inches)
- Ten miles
 - Three feet
 - Over 2 yards
 - Nearly 500 inches
57. If a tree is 2 meters tall, what is its approximate height in feet?
- 6
 - 6.5
 - 7
 - 7.5
58. The approximate equivalent of 2 pounds in grams is:
- 900
 - 100
 - 50
 - 220
59. Ten millimeters is equal to:
- 100 centimeters
 - $\frac{1}{100}$ of a centimeter
 - $\frac{1}{100}$ of a meter
 - $\frac{1}{100}$ of a kilometer
60. One milligram is equal to:
- $\frac{1}{1000}$ of a kilogram
 - $\frac{1}{1000}$ of a gram
 - 1000 grams
 - 10 centigrams
61. The sum of two whole numbers is 5 and their difference is 3. What is their product?
- 4
 - 6
 - 8
 - 10

62. The teeth of two circular gears interlock when they turn. Gear A has 12 teeth and gear B has 20 teeth. How many complete revolutions does Gear A make when Gear B makes 6 complete revolutions?
- 6
 - 8
 - 10
 - 12
63. If the perimeter of a rectangle is 6 times the width of the rectangle, then the length of the rectangle is how many times the width?
- 2
 - 4
 - 5
 - 6
64. In a pentagon, what is the sum of the five angles divided by the average of the five angles?
- 4
 - 5
 - 6
 - 8
65. There are 120 yellow balls and 80 black balls in a bag that currently contains 200 balls. If only black balls are to be added to the bag so that the probability of randomly drawing a black ball from the bag becomes $\frac{1}{2}$, how many black balls must be added to the bag?
- 40
 - 80
 - 100
 - 120
66. In the repeating decimal $0.\overline{123} = 0.123123123\dots$, where the digits 1,2,3 repeat, which digit is in the 300th place to the right of the decimal point?
- 1
 - 2
 - 3
 - Cannot be determined

67. Alice can jog at the rate of 10,560 feet in 30 minutes. What is her speed in miles per hour (mph)? (5,280 feet = 1 mile)
- 2 mph
 - 4 mph
 - 6 mph
 - 8 mph
68. A box contains 2 pounds of chocolate chip cookies. If each cookie weighs 1.6 ounces, how many cookies are there in the box? (16 oz = 1 lb)
- 12
 - 16
 - 20
 - 24
69. On a bar graph, the scale is 1 box = 400 people. The number of boxes needed to represent 1,000 people is:
- $2\frac{1}{2}$
 - 3
 - $3\frac{1}{2}$
 - 4
70. On a bar graph, it is necessary to represent the following: 8050; 10000; 2,002; 12040; 6051; 4010. The best scale to use is 1 box = _____.
- 10
 - 20
 - 200
 - 2,000
71. On a line graph, five intervals represent the number 1250. The scale on this graph is 1 interval = _____.
- 125
 - 200
 - 250
 - 300
72. In how many ways can you arrange 4 different objects in a single line?
- 4
 - 16
 - 20
 - 24

73. Using the digits 1, 2, 3, how many different three-digit numbers can be formed if the digits may be repeated any number of times in a number?
- 3
 - 6
 - 12
 - 27
74. How many straight lines can be formed by connecting any 2 of 5 non-collinear points?
- 3
 - 5
 - 10
 - 15
75. How many triangles can be formed from the vertices of a regular hexagon?
- 10
 - 15
 - 20
 - 30
76. Each of three vases contains 10 flowers. Some flowers are to be removed from one vase and placed in another vase to make the ratio of flowers in the three vases 1:6:8. What is the least number of flowers that need to be moved to accomplish this?
- 6
 - 8
 - 15
 - 16
77. There are 32 blue marbles and 18 red marbles in a bag. If only blue marbles are added, how many blue marbles must be added so that the probability of randomly drawing a blue marble becomes $\frac{3}{4}$?
- 8
 - 14
 - 22
 - 30

78. Maya has 20 meters of fencing to create a rectangular vegetable garden. If the width of the garden will be 2 meters, what is the maximum length she can create for the garden?
- a. 8 meters
 - b. 9 meters
 - c. 10 meters
 - d. 12 meters
79. A bakery needs 2 cups of flour for every batch of cookies. If they already have 8 cups of flour and need enough for 12 batches, how many more cups of flour do they need to buy?
- a. 4 cups
 - b. 8 cups
 - c. 12 cups
 - d. 16 cups
80. A rectangular garden has a width of 8 meters and a length that is 4 meters longer than twice the width. What is the perimeter of the garden in meters?
- a. 24 m
 - b. 40 m
 - c. 56 m
 - d. 64 m

ANSWER KEY - SET A

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|-------|-------|-------|
| 1. C | 28. D | 55. B |
| 2. C | 29. A | 56. C |
| 3. C | 30. C | 57. B |
| 4. B | 31. B | 58. A |
| 5. B | 32. C | 59. C |
| 6. D | 33. C | 60. B |
| 7. D | 34. A | 61. A |
| 8. C | 35. C | 62. C |
| 9. A | 36. A | 63. A |
| 10. A | 37. A | 64. B |
| 11. A | 38. B | 65. A |
| 12. C | 39. D | 66. C |
| 13. A | 40. C | 67. B |
| 14. B | 41. B | 68. C |
| 15. B | 42. B | 69. A |
| 16. B | 43. D | 70. D |
| 17. B | 44. B | 71. C |
| 18. A | 45. D | 72. D |
| 19. B | 46. C | 73. D |
| 20. C | 47. C | 74. C |
| 21. B | 48. A | 75. C |
| 22. C | 49. C | 76. B |
| 23. D | 50. C | 77. C |
| 24. D | 51. C | 78. A |
| 25. C | 52. A | 79. D |
| 26. C | 53. B | 80. C |
| 27. B | 54. B | |