JMJ

NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MATH 8 – **REVIEW 4**

1) Which of the following does NOT have line symmetry?

 A. Y B. X C. S D. E

2) A Halloween party starts at 7:30 PM. The ride to the party takes 45 minutes. It will take Kim 10 minutes to get into her costume and 10 minutes to do her hair and make-up. At what time should Kim begin to get ready?

1. 6:25 PM B. 6:15 PM C. 6:10 PM D. 6:05 PM

3) Round to the nearest hundredth: 485.0645

 A. 400 B. 500 C. 485.06 D. 485.07

4) The first three angles of a quadrilateral measure 50°, 80° and 100°. Find the measure of the last angle.

1. 30° B. 80° C. 130° D. 360°

5) Simplify: |−7 • 2| − |20| =

 A. 6 B. −6 C. 29 D. −29

6) Solve: x2 – 3x = 0

 A. {1} B. {0} C. {3} D. {0,3}

7) Find 85% of 240.

 A. 24,000 B. 198 C. 200 D. 204

8) Find the supplement of an angle of 73°.

 A. 17° B. 27° C. 107° D. 127°

9) A rectangular garden measures 6 feet by 8 feet. Each side of the garden is increased by 3 feet. By how many feet does the area increase?

1. 3 ft2 B. 6 ft2 C. 9 ft2 D. 51 ft2

10) Simplify: (−6) + (−2)(3) – (−4) =

 A. −16 B. −8 C. −4 D. 4

11) Justin is starring in a show at school. The show starts at

7:13 PM. Before he can appear onstage, Justin needs 37 minutes to apply make-up for his costume, 22 minutes to do his hair and 9 minutes to get into his costume. He also needs 16 minutes to get to school from home. What is the latest time that Justin can leave

home and still appear onstage at 7:13 PM?

 A. 5:49 PM B. 5:59 PM C. 6:09 PM D. 6:19 PM

12) The third grade of Meadow Elementary School is going to the Bronx Zoo. There are four classes with 29, 23, 34 and 28 students respectively. Each class is bringing one teacher and two parent chaperones. If each bus can hold a maximum of 40 passengers, how many buses will be needed for the trip?

1. 6 B. 5 C. 3 D. 4

13) One integer in the set: {5,6,7,8,9,10} is selected at random. What is the probability that it is a prime number?

1. $\frac{1}{3}$ B. $\frac{1}{2}$ C. $\frac{1}{4}$ D. $\frac{1}{5}$

14) Round to the nearest tenth: 347.248

 A. 350 B. 340 C. 347.2 D. 347.3

15) Subtract: 432 – 514 =

 A. 92 B. 82 C. −92 D. −82

16) The sum of an even number and an odd number is always:

 A. even B. odd C. positive D. negative

17) The additive identity element is:

 A. 1 B. 0 C. −1 D. $\frac{1}{2}$

18) Evaluate: (4 + 6 – 32) + 23 =

 A. 57 B. 9 C. 21 D. 7

19) In 1864, Nevada was admitted as the 36th State. Which anniversary of statehood will Nevada celebrate this year?

 A. 132 B. 142 C. 152 D. 162

20) Divide: 346 ÷ 0.01

 A. 3.46 B. 34.6 C. 3,460 D. 34,600

21) Divide: $\frac{2}{3}$ ÷ $\frac{1}{3}$

1. $\frac{1}{2}$ B. 2 C. 4 $\frac{1}{2}$ D. 1 $\frac{2}{3}$

22) Find 25% of 60.

 A. 35 B. 25 C. 15 D. 4

23) Express as a decimal: $\frac{1}{8}$

 A. 0.18 B. 0.8 C. 0.125 D. 0.0625

24) Express as a percent: $\frac{7}{20}$

 A. 7% B. 20% C. 28.5% D. 35%

25) Fifteen is 20% of which number?

 A. 75 B. 35 C. 3 D. 85

26) Add: $\frac{3}{5}$ + $\frac{1}{4}$

 A. $\frac{4}{9}$ B. $\frac{17}{20}$ C. $\frac{13}{20}$ D. $\frac{1}{5}$

27) Which has the largest value?

 A. $\frac{1}{2}$ B. $\frac{1}{3}$ C. $\frac{1}{4}$ D. $\frac{1}{5}$

28) Mike was walking up a flight of 36 stairs. One-third of the way up, he stopped to tie his shoe. How many stairs did Mike still have to climb after tying his shoe?

 A. 12 B. 3 C. 24 D. 2

29) Two angles measure 42° and 48°. These two angles are classified as:

 A. obtuse C. vertical

 B. supplements D. complements

30) A triangle with angles of 50°, 50° and 80° is classified as

 A. right, isosceles C. right, scalene

 B. acute, isosceles D. acute, scalene

31) What is the Least Common Multiple (LCM) for 16, 24 and 48 ?

 A. 48 B. 96 C. 144 D. 8

32) Which formula will find the area of a circle?

 A. 2¶r B. ¶d C. 2¶r2 D. ¶r2

33) A rectangle has an area of 48 mm2. Which of the following could NOT be the length of its base and height?

 A. 2 cm , 24 cm C. 3 cm , 16cm

 B. 7 cm, 8 cm D. 4 cm, 12 cm

34) Josh needs to collect food items for a food drive at his local church. Which measurement will help Joshua determine the bag that will hold the most food?

 A. area B. perimeter C. surface area D. volume

35) Which of these numbers is the best estimate for the square root of 68?

 A. 32 B. 16.3 C. 8.2 D. 4.1

36) Find the quotient: $\frac{3}{4}$ ÷ $\frac{1}{2}$

 A. 1 $\frac{1}{2}$ B. $\frac{3}{8}$ C. $\frac{2}{3}$ D. 2 $\frac{2}{3}$

37) Which of the following is an example of the Distributive Property?

 A. 2(3 + x) = 2(3) + 2x C. 6 + 0 = 6

 B. 3 + 7 = 7 + 3 D. 5+(4 + 3) = (5 + 4)+3

38) In seven practices out of twelve attempts each day, these are the number of foul shots Casey made: 3, 8, 5, 8, 11, 2, 8. Find the mode.

 A. 7 B. 12 C. 8 D. 9

39) Solve for x: 2x + 5 = 11

 A. 6 B. 8 C. 3 D. 32

40) Solve: 4(x – 3) = −4

 A. 1 B. 2 C. −1 D. −2

41) Juan surveyed twenty people about their favorite season. The results were: 9 said summer, 4 said fall, 5 said winter and 2 said spring. If Juan makes a circle graph of the results, how many degrees will be represented by “winter”?

 A. 5° B. 90° C. 20° D. 40°

42) Which of the following numbers, increased by 6, will yield a perfect square?

 A. 4 B. 6 C. 100 D. 115

43) How much more is 4 hundred thousand than five hundred?

 A. 800 B. 399,500 C. 395,000 D. 400,500

44) If x = $\frac{1}{2}$ and y = $\frac{1}{3}$ find the value of $\frac{x}{y}$

 A. 2/3 B. −2/3 C. 3/2 D. −3/2

45) Which of the following is NOT a quadrilateral?

A) parrellelogram B) square C) rhombus D) triangle

46) 45 is 60% of what number?

 A. 65 B. 75 C. 70 D. 80

47) A restaurant check comes to $100.00. The four people at the table wish to leave an additional 20% as a tip and then split the total 4 ways. How much will each person owe?

A) $20.00 B) $25.00 C) $30.00 D) $45.00

48) Which of the following is the solution set for the equation

 |2x + 5| = 3 ?

 A. {−1, −4} C. {−4}

 B. {−1} D. { }

49) If x = 2 , y = 4 and z = $\frac{1}{2}$ evaluate 3x – yz

 A. 14 B. 1$\frac{1}{2}$ C. 11 D. 4

50) Casey has quiz scores of 8, 8, 9, 7, 10, 7, 7. Which of the following is FALSE?

 A. The range is 1. C. The mean is 8.

 B. The median is 8. D. The mode is 7.

51) A polygon with eight sides is called a(n):

 A. pentagon B. hexagon C. octagon D. decagon

52) The height of the Empire State Building is approximately

 1,251 feet. Express the height of the building in yards.

1. 417 yds. B. 4017 yds. C. 3,753 yds. D. 141 yds.

53) Kyle earns $9 per hour at his part time job. If he receives a raise of 3%, what will be his new salary per hour?

 A. $9.03 B. $9.27 C. $9.30 D. $12.00

54) On January 4, 2014, Westhampton recorded a new record low temperature of −11 degrees. Two days later, the temperature had risen to 45 degrees. By how many degrees did the temperature increase?

 A. 11˚ B. 45˚ C. 34˚ D. 56˚

55) To play paddleball at Jones Beach last summer, it cost $2.00 per person per half hour, plus $2.00 per person for equipment rental. Kent and Carrie played for 1.5 hours, both renting equipment. How much change did they receive from a $20 bill?

 A. $16 B. $12 C. $8 D. $4

56) Find the length of the hypotenuse of a right triangle whose legs are 3 cm and 4 cm.

 A. 10 cm B. 5 cm C. 25 cm D. 30 cm

57) The product of 240 and 6 is the same as the product of 12 and

 A. 120 B. 240 C. 180 D. 1440

58) Which of the following is not a perfect square?

 A. 1 B. 8 C. 100 D. x2

59) Simplify: 62 + 82 =

 52

1. $\frac{13}{5}$ B. $\frac{169}{25}$ C. 100 D. 4

60) Find 25% of 64

 A. 2.5 B. 4 C. 16 D. 25

61) Convert $\frac{5}{4}$ to a percent:

 A. 54% B. 25% C. 154% D. 125%

62) Subtract: 5 – 2 $\frac{1}{3}$

1. 2 $\frac{2}{3}$ B. 3 $\frac{2}{3}$ C. 2 $\frac{1}{3}$ D. 3 $\frac{1}{3}$

63) The product of 2$\frac{1}{2}$ and 5 is \_\_\_\_\_\_ 10.

1. greater than B. less than C. equal to D. the square of

64) As of March 2014, a roundtrip airline ticket from New York to Orlando was $260.00. Taxes and fees were an additional 12%. What was the total cost of transportation?

 A. $12.00 B. $31.20 C. $272.00 D. $291.20

65) What polygon as 7 sides?

A) triangle B) heptagon C) hexagon D) nonagon

66) How many cups are in a gallon?

A) 10 B) 15 C) 16 D) 20

67) Sean can read an average of 45 words per minute. At that rate, how many words can Sean read in an hour and a half?

 A. 2000 B. 6750 C. 4050 D. 3333

68) Kendra travelled from New York to Rio de Janeiro, Brazil. Because of the time difference, it’s two hours later in Rio than in New York. Her flight from New York to Rio took approximately 10 hours. If the plane left at

11 AM local time in NY, what time was it when the plane landed in Rio?

1. 7 P.M. B. 9 P.M. C. 11 P.M. D. 1 A.M.

69) Mrs. Smith went shopping for Halloween candy. She bought two bags at $4.95 each and one for $3.99. There was no sales tax. How much change did she receive from a $20-dollar bill?

 A. $6.11 B. $13.99 C. $8.94 D. $11.06

70) Karl’s math grades this marking period are 80%, 70%, 75% (counted twice) and 95%. What is Karl’s average in math?

 A. 98.8% B. 75% C. 79% D. 82%

71) The formula for converting from degrees Fahrenheit to degrees Celsius is:

 C = $\frac{5}{9}$ (F – 32)

Find the equivalent in degrees Celsius for 122˚ Fahrenheit.

1. 50˚ B. 90˚ C. 86˚ D. 277˚

72) In how many different ways can five students be seated in a single row of five seats?

 A. 1 B. 5 C. 25 D. 120

73) Which operation is not commutative?

 A. addition C. multiplication

 B. subtraction D. all are commutative

74) Solve: x2 – 2x = 15

 A. {5} B. {−3} C. {−5, 3} D. {5, −3}