FIRST QUARTERLY EXAMINATION

Mathematics 6

Name: _____ Grade & Section: _____

School: _____ Date: _____ Score: _____

Directions: Read and analyze each item carefully. Select the best answer from the choices 1, 2, 3 and 4. **Blacken the circle** of the number that corresponds to your answer.. You have one-hour to finish the test. GOOD LUCK KIDS!

1. The expression 4^3 means
   3 + 3 + 3 + 3 4 + 4 + 4 4 x 4 x 4 4 x 3
2. What is the value of N in 3 25 – 20 = N?
   75 55 20 15
3. Solve the equation 6+ (3 x 8) + (25 ÷ 5) x 3^2 = n
   43 64 69 75
4. What is N in this number sentence: 5 x 8 + 42 -22 = N?
   48 60 138 228
5. What is the value of N in 7 3 + 27 – 32 ÷ 16 = n?
   2 16 46 55
6. Kylle bought 5 shirts for ₱ 5.50 each. If he had ₱ 50 , how much change will he get?
   ₱ 12.50 ₱ 22.50 ₱ 35.50 ₱ 44.50
7. Carl bought 3 kilograms of sugar at ₱ 26.00 per kilogram and a box of chocolate for ₱ 25.00. How much did she spend in all?
   ₱ 51.00 ₱ 78.00 ₱ 103.00 ₱ 115.00
8. Choose the decimal value that the model represents.

   5.0 0.6 0.5 0.4
9. Darly rode his bicycle $\frac{8}{10}$ of a kilometer to school, write as a decimal.
   0.8 0.08 0.008 0.0008
10. In words, what is the value of 7 in 0.3705?
   Seven tenths seven hundredths seven thousandths seven ten- thousandths
11. What is 0.0235 written in words
   two hundred thirty five tenths two hundred thirty five thousandths
   two hundred thirty five hundredths two hundred thirty five ten-thousandths
12. What is 0.0055 written in scientific notation?
   5.5×10^{-3} 5.5×10^{-2} 5.5×10^{-1} 5.5×10^{-0}
13. Which set of decimals is arranged from least to greatest?
   0.0593, 0.0586, 0.0563, 0.0539 0.0593, 0.0563, 0.0586, 0.0539
   0.0586, 0.0539, 0.0593, 0.0563 0.0539, 0.0563, 0.0586, 0.0593
14. What is the result when 7.5618 is rounded to the nearest thousandths?
   7.056 7.062 7.562 7. 561
15. If you estimate the sum of 25.8 and 13.5, the result is about,
   37 38 39 40
16. After May used 0.8 kg of oil to cook their supper, 1.25 kg of oil was left in the container. How many kilograms of oil were there at first?
   1.15 1.25 2.05 2.50
17. The difference between 10.003 and 9.345 is _____.
   1.342 1.658 0.658 0.55
18. Mrs. Farola donated 87.5 kg of rice to the flood victims. If each victim got 2.5 kg of rice, how many people received the rice donation?
   30 people 35 people 40 people 45 people
19. Daniel has ₱200.00. He spent ₱35.00 for a piece of notebook and ₱45.00 for lunch. How much money does he have left?
   ₱ 35.00 ₱ 45.00 ₱ 80.00 ₱120.00
20. Alma bought 100 pieces of ponkan costing ₱ 5.50 each and sold them at ₱ 7.00 each. If Alma sold all the ponkan how much is her profit?
   ₱ 150.00 ₱ 550.00 ₱700.00 ₱1,250.00
21. A box contains 12 cans of milk each weighing 0.450 g. What is the total weight of the box?
   0.540 g 0.054 g 5.400 g 5.452 g
22. What is the product of 0.2 and 0.36?
   0.0086 0.086 0.0864 0.864
23. Find the cost of 3.5 meters of mantel at ₱ 82.50 per meter.
   ₱ 287.00 ₱ 287.50 ₱ 288.50 ₱ 288.75
24. If N x 1000 = 80, what is the value of N?

0.80 0.08 0.008 0.0008

25. What is **n** in 0.1 x 0.1= n

0.1 0.01 0.001 0.0001

26. A boy earns ₱20.00 per hour for helping his uncle in cleaning their backyard. If he worked for 8 hours, how much did he earn?

₱ 120.00 ₱150.00 ₱160.00 ₱ 200.00

For items number 27-29, refer to this problem:

> Fabby has ₱ 365.00 and Nandy has ₱ 416.00. They need to buy 2 books that costs ₱ 405.25 each. If they put their money together, how much more do they need to buy the books?

27. What is the hidden question in the problem?

How much 2 books cost? How much money do they need?

How much money did Fabby have at first? How many books they need to buy?

28. What will be the operations to be used to solve the problem?

addition and subtraction multiplication, addition, and division

addition and multiplication multiplication, addition, and subtraction

29. What is the complete answer to the problem?

₱ 10.75 ₱ 29.50 ₱ 40.25 ₱ 55.00

30. Rinah has a ribbon with a length of 130 cm. About how many pieces of 5.8 cm long ribbon can be cut from it?

15 17 22 23

31. What is the quotient if you divide 1050 by 3.5?

0.30 0.300 300 3000

32. Which of the following expressions will give a repeating decimal quotient?

> I. 1 ÷ 2 II. 1 ÷ 3 III. 1 ÷ 4 IV. 1 ÷ 6

I and III I and IV II and IV III and IV

33. Stephen has ₱5.75 in his pocket. Two are peso coins, three are 25-centavo coins, and the rest are 50 centavo coins. How many 50- centavo coins does he have?

2 6 4 6

34. What is the quotient of 7488 divided by 7.2?

1040 104 1.040 10.40

35. The rope is 46.75 meters long . How many 8.5 - meter pieces can be cut from it?

3.5 m 4.5 m 5.5 m 6.5 m

36. Divide 68.8 by 10.

0.688 6.88 68.8 68.80

37 When 67.39 is divided by 0.001, the quotient is _____

. 6.7390 67.390 673.90 67390

38 .Ria's mother gave her ₱ 76.50. Her mother told her to divide it equally among her three cousins. How much will each cousin get?

₱ 25.50 ₱ 24.00 ₱ 23.50 ₱ 22.00

For items number 39-40, refer to this problem:

> Three best friends ate at the restaurant and, after paying 1 000- peso bill, they received ₱ 173.05 change. If they shared the restaurant bill equally, how much did each of them share?

39. Which of these number sentences will lead to the correct answer in the problem? (If N represents the share of each person.)

(₱1000 - ₱173.05)÷3= N (₱1000+ ₱173.05) ÷3 = N ₱ 1000-(₱173.05÷3)= N ₱ 1000 ÷3 = N

40. What is the correct answer to the problem?

₱ 173.05 ₱ 275.65 ₱ 606.35 ₱ 826.95

TABLE OF SPECIFICATIONS

COMPETENCIES	Item	knowledge	comprehension	application	analysis	synthesis	evaluation	Key
Give the value of numbers involving exponents	1	■						3
Perform two different operations on whole numbers with or without exponents	2		■					2
Perform two different operations on whole numbers with or without parenthesis or other grouping symbols	3		■					4
Perform more than two operations on whole numbers with or without exponents	4		■					2
Perform more than two operations on whole numbers with or without parenthesis or other grouping symbols	5		■					3
Solve two to three-step word problems involving whole numbers following the steps in solving two-step problems	6			■				2
Solve two to three-step word problems involving whole numbers following the steps in solving two-step problems	7			■				3
Name a decimal for a given model (region/blocks, number line, grid)	8	■						3
Rename fractions whose denominators are powers of 10 in decimal form	9	■						1
Identify the value/place value of each digit in a given decimal	10	■						2
Read decimals through ten thousandths	11	■						4
Write decimals through ten thousandths in different notations (standard, expanded. scientific)	12	■						1
Compare and order decimals through ten thousandths	13	■						4
Round decimals through thousandths	14		■					3
Estimate sums and differences of decimals and mixed decimals	15		■					3
Add and subtract whole numbers and decimals	16			■				3
Add and subtract decimals through ten thousandths without and with regrouping	17		■					3
Add and subtract mixed decimals with regrouping	18			■				2
Solve one to three-step word problems involving addition and subtraction of decimals including money following the steps in solving problems	19				■			4
	20				■			1
Multiply one to three-digit factors by one to two-digit factors of whole numbers and decimals without and with regrouping and with zero difficulty	21			■				3
Multiply hundredths by hundredths	22				■			3
Multiply mixed decimals by mixed decimals with hundredths	23				■			4
Multiply decimals by 10, 100, and 1000	24			■				2
Multiply decimals by 0.1, 0.01, and 0.001	25			■				2
Solve word problems involving multiplication of decimals including money following the steps in solving problems	26				■			3
Solve two to three-step word problems involving addition, subtraction and multiplication of decimals including money following the steps in solving two-step problems	27		■					3
	28		■					4
	29		■					2
Estimate quotients of whole numbers and decimals	30		■					3
Divide whole numbers (two to five-digit dividends) by decimals (one to two-digit divisors)	31			■				3
Differentiate between terminating and repeating from non-terminating decimal quotients	32						■	3
Divide mixed decimals by whole numbers (visualize division using money as model)	33	■						4
Divide whole numbers by decimals and mixed decimals	34		■					1
Divide mixed decimals by mixed decimals	35		■					3
Divide decimals by 10, 100 and 1000	36		■					2
Divide decimals by 0.1, 0.01 and 0.001	37		■					4

Solve word problems involving division of decimals including money following the steps in solving problems	38							**1**
Solve two to three-step word problems involving decimals including money following the steps in solving two-step problems	39							**1**
	40							**2**