TABLE OF SPECIFICATIONS
(TALAAN NG ISPESIPIKASYON)
FIRST QUARTER IN
(UNANG MARKAHAN SA)
QUARTER 1
ACADEMIC YEAR 2025-2026

SUBJECT	MATHEMATICS	ACT		MATATAG CURRICULUM												ACADEMIC YEAR 2025-2026	
GRADE	5			1ST PERIODICAL TEST													
CODES	LEARNING COMPETENCIES *(INCLUDE CODES IF AVAILABLE)*	UAL INSTRUCTIONS (DAYS)	WEIGHT (%)	REVISED BLOOM'S TAXONOMY LEVEL OF COGNITIVE DIMENSION												TOTAL NUMBER OF TEST ITEMS	
				REMEMBERING		UNDERSTANDING		APPLYING		ANALYZING		EVALUATING		CREATING			
				NOI	POI	NOI	POI	NOI	POI	NOI	POI	NOI	POI	NOI	POI	ACTUAL	ADJUSTED
NC	1. describe a 12- and 24-hour clock system.	2	8%	4	1,2,3, 4											4	4
NC	2. convert 12-hour time to 24-hour time, and vice-versa.	2	10 %			5	5,6,7, 8,9									5	5
NC	3. solve problems involving 12- and 24-hour time.	4	8%							1	10	2	11, 12	1	13	4	4
NC	4. compare the time in different world time zones to the time in the Philippines using a world time zone map.	4	8%							4	14,1 5,16, 17					4	4
NC	5. solve problems on comparing the time in different world time zones to the time in the Philippines.	2	8%			3	18,19, 20					1	21			4	4

NC	6. perform three or more different operations by applying the GMDAS rules.	**4**	**10 %**					**5**	**22, 23, 24, 25, 26**							**5**	**5**
NC	7. multiply fractions using models.	**4**	**10 %**	**4**	**27,28 ,29,3 0**											**4**	**4**
NC	8. multiply a fraction by a fraction.		**8%**			**4**	**31,32, 33,34**									**4**	**4**
NC	9. solve multi-step problems involving multiplication of fractions that may or may not also involve addition or subtraction of fractions.	**4**	**8%**					**4**	**35, 36, 37, 38**							**4**	**4**
NC	10. identify the height of a parallelogram, triangle, and trapezoid, in different orientations.	**4**	**8%**	**4**	**39,40 ,41,4 2**											**4**	**4**
NC	11. find the area of a parallelogram, triangle, and trapezoid, in sq. cm or sq. m, using formulas.	**4**	**8%**			**4**	**43,44, 4546**									**4**	**4**
NC	12. estimate the areas of triangles and quadrilaterals (parallelogram, rhombus, trapezoid) using grids.	**2**	**8%**			**2**	**47,48**			**1**	**49**			**1**	**50**	**4**	**4**
	TOTAL	**40**	**10 0%**	**12**		**18**		**10**		**5**		**3**		**2**		**50**	**50**

Initial Content Validation

Final Validation

Republic of the Philippines
Department of Education
REGION _____
DISTRICT ____
SY 2025-2026

YOUR SCHOOL

FIRST PERIODICAL in
MATHEMATICS 5

NAME: _____**SCORE:** _____

GRADE AND SECTION: _____ **DATE:** _____

DIRECTIONS: READ and ENCIRCLE the correct answer for each question. Answer silently.

1.What is the maximum number shown on a **12-hour clock**?
A. 24 B. 12 C. 10 D. 60

2.What time is shown as **14:00** in the **24-hour clock system**?
A. 12:00 PM B. 2:00 AM C. 4:00 PM D. 2:00 PM

3.Which of the following is NOT part of a **24-hour clock system**?
A. 06:30 B. 12:00 C. 18:45 D. 25:00

4.In the **12-hour clock**, which abbreviation stands for morning time?
A. PM B. MN C. AM D. NT

5.Carlo finished his homework at **8:30 PM**. What is this time in **24-hour format**?
A. 08:30 B. 20:30 C. 18:30 D. 22:30

6.A plane landed at **05:15** in the **24-hour clock system**. What time is this in the **12-hour clock system**?
A. 5:15 PM B. 5:15 AM C. 4:15 AM D. 6:15 PM

7.Which of the following shows the correct **conversion of 12:45 PM** to 24-hour time?
A. 00:45 B. 12:45 C. 13:45 D. 11:45

8.What is **23:00** in **12-hour format**?
A. 11:00 AM B. 10:00 PM C. 11:00 PM D. 12:00 AM

9.The movie starts at **7:20 AM**. What is this time in **24-hour clock format**?
A. 17:20 B. 07:20 C. 19:20 D. 08:20

10.Anna left home at **07:45** in the morning and returned at **17:30** in the afternoon. How long was she away from home?
A. 9 hours and 45 minutes B. 10 hours and 15 minutes
C. 11 hours and 45 minutes D. 12 hours and 15 minutes

11.Mia was given two schedules for an online meeting. One says **09:00**, and the other says **9:00 PM**. She must attend the correct one. Which of the following actions best shows that she understands the difference?
A. Attend both meetings just to be sure
B. Choose the one that fits her daily schedule
C. Convert both times to the same format and choose correctly
D. Ask a friend to decide for her

12.A train schedule shows that it departs City A at **21:15** and arrives in City B at **05:45** the next day. A student says the travel time is **4 hours and 30 minutes**. Which statement best evaluates this answer?
A. Correct, because 21 + 4 = 25, and 25 – 21 = 4
B. Incorrect, because the student did not consider that the time passed midnight
C. Correct, because 05 – 21 = 4 hours
D. Incorrect, because the travel time must be over 6 hours

13.Which of the following is the **most appropriate time frame** for a lunch break?
A. 06:00–07:00 B. 12:00–13:00 C. 15:00–16:00 D. 18:00–19:00

14.The Philippines is in the **UTC+8** time zone. If it is **10:00 AM** in the Philippines, what time is it in **Tokyo (UTC+9)**?
A. 9:00 AM B. 10:00 AM C. 11:00 AM D. 12:00 PM

15.Mia has an online call with her friend in **Dubai (UTC+4)**. If the call is scheduled for **3:00 PM** in the Philippines, what time will it be in Dubai?
A. 1:00 PM B. 2:00 PM C. 4:00 PM D. 5:00 PM

16.A meeting is set at **2:00 PM in London (UTC+0)**. What would be the time in the **Philippines (UTC+8)**?
A. 10:00 PM B. 8:00 AM C. 6:00 AM D. 12:00 MN

17.Kevin is traveling from **Manila (UTC+8)** to **New York (UTC-5)**. If his flight departs at **9:00 AM Manila time**, what is the corresponding time in **New York**?
A. 6:00 PM (previous day) B. 8:00 PM (same day)
C. 10:00 AM (same day) D. 2:00 AM (previous day)

18.The Philippines is in the **UTC+8** time zone, while **Sydney, Australia** is in **UTC+10**. If it is **6:00 PM** in the Philippines, what time is it in Sydney?
A. 4:00 PM B. 6:00 PM C. 8:00 PM D. 10:00 PM

19.If it is **9:00 AM in the Philippines (UTC+8)**, what time is it in **Bangkok, Thailand (UTC+7)**?
A. 10:00 AM B. 9:00 AM C. 8:00 AM D. 7:00 AM

20.Julia's aunt in **Los Angeles (UTC-8)** called at **8:00 PM Philippine time**. What time was it in Los Angeles when the call was made?
A. 8:00 AM (same day) B. 12:00 PM (same day)
C. 4:00 AM (same day) D. 8:00 AM (previous day)

21.You are organizing an online group project with classmates in the **Philippines (UTC+8)**, **London (UTC+0)**, and **New Zealand (UTC+12)**. You propose meeting at **5:00 PM Philippine time**.
Which of the following statements best evaluates the appropriateness of the time for all participants?
A. It is early morning in London and late at night in New Zealand, so the time is ideal for all.
B. It is midnight in London and 9:00 PM in New Zealand, so the time works best for the Philippines and New Zealand.
C. It is 9:00 AM in London and 1:00 AM in New Zealand, so the time is fair for everyone.
D. It is 9:00 AM in London and 9:00 PM in New Zealand, which makes the time reasonable for all participants.

22.What is the value of this expression:**8 + (12 ÷ 4) × 3**
A. 15 B. 17 C. 18 D. 20

23.Solve:**(6 + 3) × 2 − 4**
A. 14 B. 18 C. 16 D. 10

24.What is the result of:**20 − 6 × 2 + 8**
A. 0 B. 20 C. 10 D. 8

25.Evaluate:**(15 − 3) ÷ 3 + 7**
A. 10 B. 9 C. 8 D. 7

26.Find the answer to:**(10 + 2) × (6 − 4) ÷ 2**
A. 12 B. 6 C. 24 D. 8

27.What does the **shaded part of a 4 × 5 grid** represent when **3/4 of 2/5** is shaded?
A. 6/9 B. 5/9 C. 3/10 D. 6/20

28.In fraction multiplication using area models, what shape is most commonly used?
A. Triangle B. Square C. Circle D. Rectangle

29.How many parts will be shaded when you find **1/2 of 3/4** using a model?
A. ¼ B. 2/4 C. 3/8 D. 1/2

30.When multiplying fractions using models, what does the **overlapping shaded region** represent?
A. The difference of two fractions
B. The quotient of two fractions
C. The product of two fractions
D. The sum of two fractions

31.What is the product of **2/3 × 4/5**?
A. 8/15 B. 6/15 C. 2/8 D. 8/20

32.Which of the following is the correct way to multiply **3/4 × 2/3**?
A. Subtract the numerators (3 − 2) and the denominators (4 − 3)
B. Add the numerators (3 + 2) and the denominators (4 + 3)
C. Multiply the numerators (3 × 4) and the denominators (2 × 3)
D. Multiply the numerators (3 × 2) and the denominators (4 × 3)

33.If you multiply **5/8 × 2/5**, what is the result?
A. 1/8 B. 10/40 C. ¼ D. 10/15

34.What is the result of **7/9 × 3/7**?
A. 21/63 B. 3/9 C. 1/3 D. 1/2

35.Sarah made a batch of cookies. The recipe calls for **3/4** cup of sugar. She used **2/3** of that amount for the first batch and **1/2** of the remaining sugar for the second batch. How much sugar did she use for both batches?
A. 3/4 cup B. 5/6 cup C. 7/12 cup D. 1/2 cup

36.Jake is planting seeds in rows in his garden. He planted **2/5** of a row of seeds on the first day and **3/4** of the remaining row on the second day. How much of the row of seeds did Jake plant in total?
A. 7/20 B. 7/10 C. 8/15 D. 9/20

37.A recipe calls for 3/4 cup of milk. Sarah has only 1/2 of that amount. She decides to make a smaller batch of the recipe by using only 3/5 of the milk she has. How much milk will she use?
A. 1/2 cup B.2/5 cup C. 3/10 cup D. 3/4 cup

38.Emma is buying fabric for a project. She buys **5/6** of a yard of fabric. She then uses **1/2** of the fabric for one part of the project and **1/3** of the remaining fabric for another part. How much fabric did Emma use in total?

A. 5/12 yard B. 7/12 yard C. 3/4 yard D. 1/2 yard

39.The height of a **parallelogram** is the **distance between its parallel sides**. What is the correct way to find the height of a parallelogram when it is tilted at an angle?
A. Measure the length of one of the sides
B. Measure the angle between the sides
C. Measure the length of the diagonal
D. Measure the perpendicular distance between the parallel sides

40.What is the height of a **triangle**?
A. The distance from the vertex to the midpoint of the base
B. The distance from the top vertex straight down to the base
C. The distance from the top vertex to the opposite vertex
D. The length of the longest side

41.In a **trapezoid**, which of the following is the height?
A. The distance between the parallel sides
B. The length of the longer base
C. The difference between the two bases
D. The distance from one vertex to the opposite vertex

42.When a **parallelogram** is rotated, what remains unchanged about the height?
A. The height remains the same, as long as the base stays the same
B. The height doubles when the parallelogram rotates
C. The height is always half the base
D. The height changes based on the angle of rotation

43.What is the area of a parallelogram with a base of 10 cm and a height of 4 cm?
A. 14 cm^2 B. 40 cm^2 C. 30 cm^2 D. 20 cm^2

44.A triangle has a base of 12 m and a height of 6 m. What is its area?
A. 72 m^2 B. 18 m^2 C. 36 m^2 D. 24 m^2

45.The area of a trapezoid is calculated by the formula: Area = ($base_1$ + $base_2$) × height ÷ 2.
If $base_1$ = 8 cm, $base_2$ = 6 cm, and the height is 5 cm, what is the area of the trapezoid?
A. 35 cm^2 B. 30 cm^2 C. 40 cm^2 D. 45 cm^2

46.Find the area of a triangle with a base of 15 m and a height of 8 m.
A. 60 m^2 B. 120 m^2 C. 100 m^2 D. 80 m^2

47.Using a grid, estimate the area of the parallelogram below. The parallelogram covers approximately **8 squares** in height and **6 squares** in length.

A. 48 square units B. 40 square units
C. 45 square units D. 36 square units

48.Using a grid, estimate the area of the triangle below. The triangle covers approximately **6 squares** in height and **5 squares** in length.

A. 30 square units
B. 15 square units
C. 10 square units
D. 12 square units

49.Look at the grid and the parallelogram below. The parallelogram is about 6 squares in height and 9 squares in length. The parallelogram covers roughly half of the grid. What is the estimated area of the parallelogram?

A. 54 square units
B. 27 square units
C. 36 square units
D. 48 square units

50.You are designing a new park and need to estimate the area of a trapezoid-shaped playground. The trapezoid has bases measuring **8 squares** and **12 squares**, and a height of **6 squares**. If you were to create a similar playground with a different height of **10 squares**, how would you adjust your estimate for the area, using the new height?

A. Multiply the new height by the average of the two bases
B. Use the same method and multiply the new height by the sum of the two bases
C. Use the same method and multiply the new height by the difference of the two bases
D. Subtract the original area from the new area

ANSWER KEY

1. B
2. D
3. D
4. C
5. B
6. B
7. C
8. C
9. B
10. B
11. C
12. B
13. B
14. C
15. A
16. B
17. A
18. C
19. C
20. A
21. D
22. C
23. A
24. C
25. A
26. A
27. C
28. D
29. C
30. C
31. A
32. D
33. A
34. C
35. C
36. B
37. C
38. B
39. D
40. B
41. A
42. A
43. B
44. C
45. B
46. B
47. A

48.B

49.B

50.A