Course .....ANLP8103C-V01.....Unit Lesson.....Decimals.....
Subject ……Mathematics……..……Level……Mathayom 1……..……..
Teacher …….
School……..……

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The table of Mathematics Subject Test Analysis….Mathematics…**Level**….Mathayom 1….

Unit Lesson " Decimals "

No.	No. of Indicator	Indicator	Knowledge / Skill						
			Knowledge		Cognitive				
			Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total
1.	MA1.1 G.7/1	Understand rational numbers and their relationships, and apply the properties of rational numbers to solve mathematical and real-world problems.	-	Multiple Choice2	Solution2	-	-	-	4
Total			-	2	2	-	-	-	4

ลงชื่อ .....
ผู้ออกข้อสอบ

ลงชื่อ .....
ผู้ตรวจทาน

Course .....ANLP8104C-V01.....Unit Lesson.....Exponentiations.....
Subject ……Mathematics……..……Level……Mathayom 1……..……..
Teacher …….
School……..……

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The table of Mathematics Subject Test Analysis….Mathematics…**Level**….Mathayom 1….

Unit Lesson " Exponentiations "

No.	No. of Indicator	Indicator	Knowledge / Skill						
			Knowledge		Cognitive				
			Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total
1.	MA1.1 G.7/2	Understand and apply the properties of exponentiation with positive integer exponents to solve mathematical and real-world problems.	-	Multiple Choice7	-	Multiple Choice1	-	-	8
Total			-	7	-	1	-	-	8

ลงชื่อ .....
ผู้ออกข้อสอบ

ลงชื่อ .....
ผู้ตรวจทาน

Course .....ANLP8105C-V01.....Unit Lesson.....Basic 2D and 3D.....
Subject ……Mathematics……..……Level……Mathayom 1……..……..
Teacher …….
School……..……

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The table of Mathematics Subject Test Analysis….Mathematics…**Level**….Mathayom 1….

Unit Lesson " Basic 2D and 3D "

No.	No. of Indicator	Indicator	Knowledge / Skill						
			Knowledge		Cognitive				
			Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total
1.	MA 2.2 G.7/21	Understand and apply the concept of geometry to analyze the relationship between two-dimensional and three-dimensional geometric figures.	-	Multiple Choice 5	-	-	-	-	5
Total			-	5	-	-	-	-	5

ลงชื่อ .....
ผู้ออกข้อสอบ

ลงชื่อ .....
ผู้ตรวจทาน

Course .....ANLP8106C-V01.....Unit Lesson....Linear Equation in One Varible.....
Subject ……Mathematics……..……Level……Mathayom 1……..……..
Teacher …….
School……..……

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The table of Mathematics Subject Test Analysis….Mathematics…**Level**….Mathayom 1….

Unit Lesson " Linear Equations in One Variable "

No.	No. of Indicator	Indicator	Knowledge / Skill						
			Knowledge		Cognitive				
			Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total
1.	MA 1.3 G.7/1	Understand and apply the properties of equality and properties of numbers to analyze and solve problems using linear equations in one variable.	-	Multiple Choice3 Solution2	Multiple Choice2 Solution 1	-	-	-	8
Total			-	5	3	-	-	-	8

ลงชื่อ .....
ผู้ออกข้อสอบ

ลงชื่อ .....
ผู้ตรวจทาน

Final Test Semester1/ 2565

School ..... Province .....

Course ..... Subject ..... Level .....

Score ..... points Time ..... minutes

Part 1 Multiple Choice Tests

Direction Mark X against the correct answer.

Indicators

MA1.1 G.7/1

Understand rational numbers and their relationships and apply the properties of rational numbers to solve mathematical and real-world problems.

MA1.1 G.7/2

Understand and apply the properties of exponentiation with positive integer exponents to solve mathematical and real-world problems.

MA 2.2 G.7/2

Understand and apply the concept of geometry to analyze the relationship between two-dimensional and three-dimensional geometric figures.

MA 1.3 G.7/1

Understand and apply the properties of equality and properties of numbers to analyze and solve problems using linear equations in one variable.

1. What is the value of $\left(\frac{7}{2} \times 15.32\right) + \left(\frac{3}{2} \times 15.32\right)$? (MA1.1 G.7/1 Understanding)
   1. 52.8
   2. 76.6
   3. 153.2
   4. 174.6

2. Which of the following equations is true? (MA1.1 G.7/1 Understanding)
   1. $\frac{24}{5} = 4.08$
   2. $\frac{124}{20} = 6.4$
   3. $\frac{5}{16} = 0.3125$
   4. $\frac{32}{25} = 1.27$

3. What is the value of $(-3)^3$? (MA 1.3 G.7/1 Understanding)
   1. -27
   2. -9
   3. 9
   4. 27

4. What is the value of $\frac{2^3+(5-3)^2}{(9-6)^2}$? (MA 1.3 G.7/1 Understanding)

1. $\frac{10}{3}$
2. 4
3. $\frac{4}{3}$
4. 6

5. Which of the following statements is false? (MA1.1 G.7/1 Analyzing)

1. $5^x \times 5^y = 5^{x+y}$
2. $\left(5^x\right)^y = 5^{xy}$
3. $\left(3^2 + 2^3\right)^2 = 3^4 + 2^6$
4. $\left(3^2 2^3\right)^4 = 3^8 2^{12}$

6. What is the value of $\left(9^2\right)^{-2} \times 9^{x+4}$? (MA 1.3 G.7/1 Understanding)

1. 0
2. 1
3. 5
4. 9^x

7. If $3^x = 243$, and $4^y = 64$, what is the value of x - y? (MA 1.3 G.7/1 Understanding)

1. 2
2. 3
3. 4
4. 5

8. Which is the expression is equivalent to $\left[\frac{a^{-2}b^{-3}c^0}{c^{-3}}\right]^3$? (MA 1.3 G.7/1 Understanding)

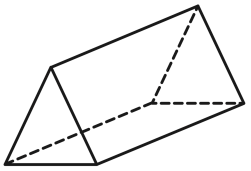
1. $\frac{1}{a^6 b^3 c^9}$
2. $\frac{a^6}{b^3 c^9}$
3. $\frac{b^3}{a^6 c^9}$
4. $\frac{c^9}{a^6 c^9}$

9. What is the value of $\frac{a^8}{b^5} \div \frac{a^5}{b^8}$? (MA 1.3 G.7/1 Understanding)

1. ab
2. $\frac{a}{b}$
3. a^3b^3
4. $a^{13}b^{13}$

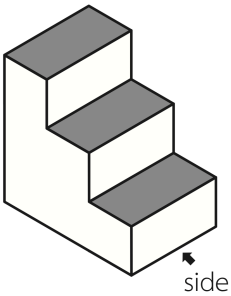
10. Which of the following is equivalent to 123.4 × 1,000,000?
(MA 1.3 G.7/1 Understanding)

1. 1.234×10^4
2. 1.234×10^6
3. 1.234×10^8
4. 1.234×10^9



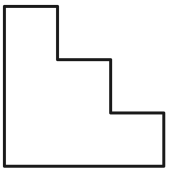
11. A curve is formed by cutting a prism with a plane parallel to the base of the prism as shown above. Which of the following is cross-section? (MA 2.2 G.7/21 Understanding)

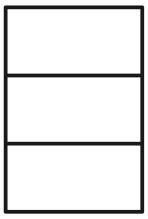
1. Triangle
2. Square
3. Rectangle
4. Hexagon

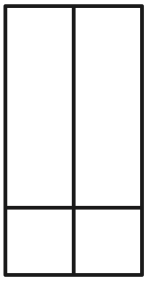


12. Which of the following is a side view of the three dimensions above?
(MA 2.2 G.7/21 Understanding)

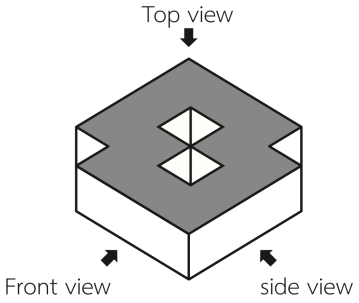
1. 

2. 

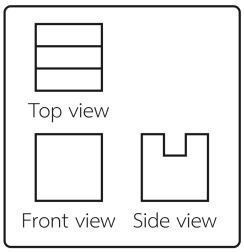
3. 

4. 

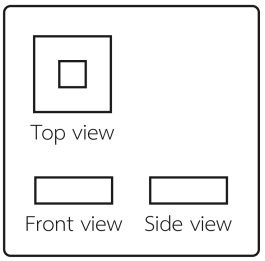
13. Which of the following are the top view, side view, and front view of a tree dimension below?
(MA 2.2 G.7/21 Understanding)



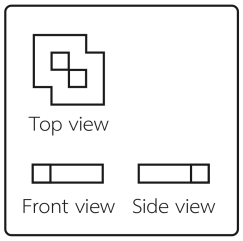
1.



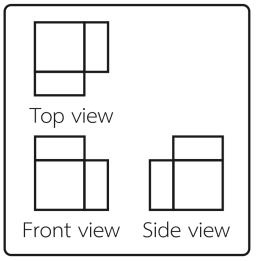
2.

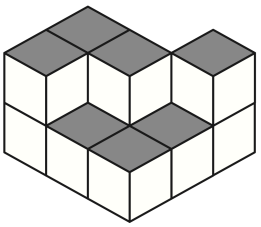


3.



4.

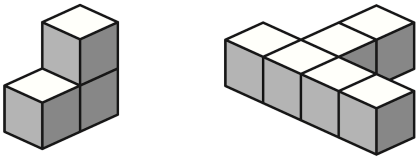




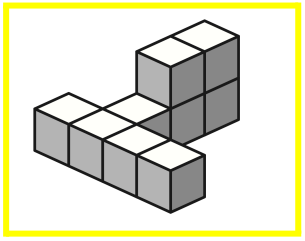
14. How many cubes are there in a three-dimension above? (MA 2.2 G.7/21 Understanding)

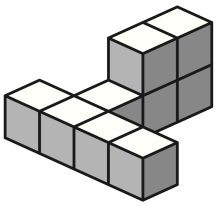
1. 9
2. 10
3. 11
4. 12

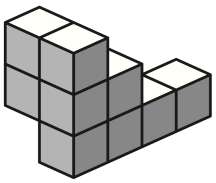
15. There are two pieces of materials as drawn below.

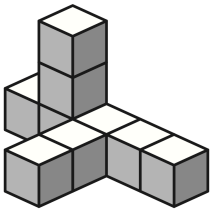


Which figure is the result of the combination of the two above figures?
(MA 2.2 G.7/21 Understanding)

1. 

2. 

3. 

4. 

16. If $\frac{3x}{4} + 4 = \frac{1}{8}x - 1$, what is the value of x? (MA 1.3 G.7/1 Understanding)

1. -8
2. -2
3. $\frac{8}{3}$
4. 2

17. If $5 - \frac{1}{2}(x - 4) = 17$, what is the value of x? (MA 1.3 G.7/1 Understanding)

1. -28
2. -20
3. -2
4. 20

$$\frac{2(x-4)+2}{3} = \frac{12-(6-x)}{2}$$

18. In the following equation above, what is the value of x? (MA 1.3 G.7/1 Understanding)

1. 6
2. 15
3. 30
4. 50

19. Two-thirds of students in a class are men. If there were 24 men. What is the number of women in this class?
(MA 1.3 G.7/1 Applying)

1. 12
2. 24
3. 36
4. 48

20. The length of a room is 16 meters. The perimeter of the room is 40 meters. What is the width of this room?
(MA 1.3 G.7/1 Applying)

1. 4
2. 14
3. 20
4. 24

Part2 Solution Questions

Direction Find the answers to the questions below.

1. Lisa's weight is 45.5 kilograms. Jenny's weight is 1.2 times Lisa's weight. How many kilograms is Jenny heavier than Lisa?
(MA1.1 G.7/1 Applying)

Solution
……Lisa's weight is 45.5 kilograms……
……Jenny's weight is 1.2 times Lisa's weight = 1.2 × 45.5 = 54.6……
……Jenny heavier than Lisa = 54.6 - 45.5 = 9.1 Kilograms ANS……
……

2. x + y is how many time of x - y when $x = -\frac{1}{2}$ and $y = -\frac{1}{3}$?
(MA1.1 G.7/1 Applying)

Solution……
……$x = -\frac{1}{2}$ and $y = -\frac{1}{3}$……
……$x + y = (-\frac{1}{2}) + (-\frac{1}{3}) = \frac{(-1)(3)+(-1)(2)}{(2)(3)} = y = \frac{(-3)+(-2)}{6} = -\frac{5}{6}$……
……$x - y = (-\frac{1}{2}) - (-\frac{1}{3}) = \frac{(-1)(3)-(-1)(2)}{(2)(3)} = y = \frac{(-3)+2}{6} = -\frac{1}{6}$……
……x + y is how many time of x - y ?……
……$-\frac{5}{6}$ = Times of $-\frac{1}{6}$……
……$-\frac{5}{6} \times (-6) = 5$……
……x + y is 5 times of x - y ANS……
……

3. Solve $2[3 - 2(3 - 2x)] = 2(3 + x)$.(MA 1.3 G.7/1 Understanding)

Solution……
……$2[3 - 2(3 - 2x)] = 2(3 + x)$……
……$2[3 - 6 + 4x] = 6 + 2x$……
……$2(3) - 2(6) + 2(4x) = 2 + 2x$……
……$6 - 12 + 8x = 6 + 2x$……
……$8x - 2x = 6 - 6 + 12$……
……$6x = 12$……
……$x = 2$ ANS……
……

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4. Solve $\frac{3x-1}{4} - \frac{4x-1}{12} = \frac{3+5x}{8}$. (MA 1.3 G.7/1 Understanding) ANS $-2\frac{3}{5}$

Solution

$\frac{3(3x-1)}{3(4)} - \frac{4x-1}{12} = \frac{3+5x}{8}$

$\frac{9x-3}{12} - \frac{4x-1}{12} = \frac{3+5x}{8}$

$\frac{9x-3-4x+1}{12} = \frac{3+5x}{8}$

$\frac{5x-2}{12} = \frac{3+5x}{8}$

8(5x - 2) = 12(3 + 5x)

40x - 16 = 36 + 60x

40x - 60x = 36 + 16

-20x = 52

$x = -\frac{13}{5} = -2\frac{3}{5}$ ANS

5. At a snack bar, each medium drink cost \$1.85 and each large costs *c* more dollars than a medium drink. If 5 medium drinks and large drinks cost a total of \$20.50, what is the value of *c*? (MA 1.3 G.7/1 Applyig) ANS 0.4

Solution

$(5 \times 1.85) + 5(1.85 + C) = 20.50$

$9.25 + 9.25 + 5C = 20.50$

$5C = 20.50 - 9.25 - 9.25$

$5C = 2$

$C = 0.4$ ANS