
Math BLEPT
Review Session
With Sir Bryan

#PAPASAAKO!
#TOPNOTCHERAKO!


1:00:00

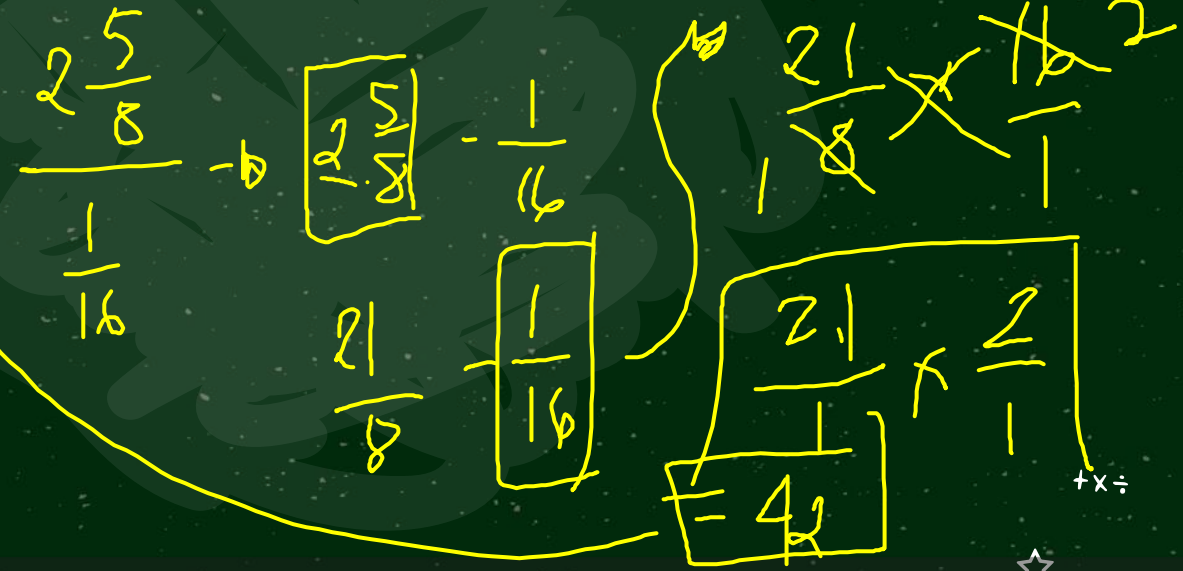
1. How many 1/16 are there in 2 5/8?

a. 42

b. 44

c. 46

d. 48



Students choose an option

LCM

2. A blue neon light blinks every 4 seconds. A red one blinks every 5 seconds while a green one blinks every 6 seconds. How many times will they blink together in half an hour?

a. 1
b. 5
c. 10
d. 30

30 times

2 x 2 x 5 x 3 = 60 sec (1)

3. Which of the following is divisible by 3 but not by 9?

a. 11, 070 = 9

b. 40, 206 = 12

c. 45, 072

d. 19,386

sum div 3

sum div 9

Students choose an option

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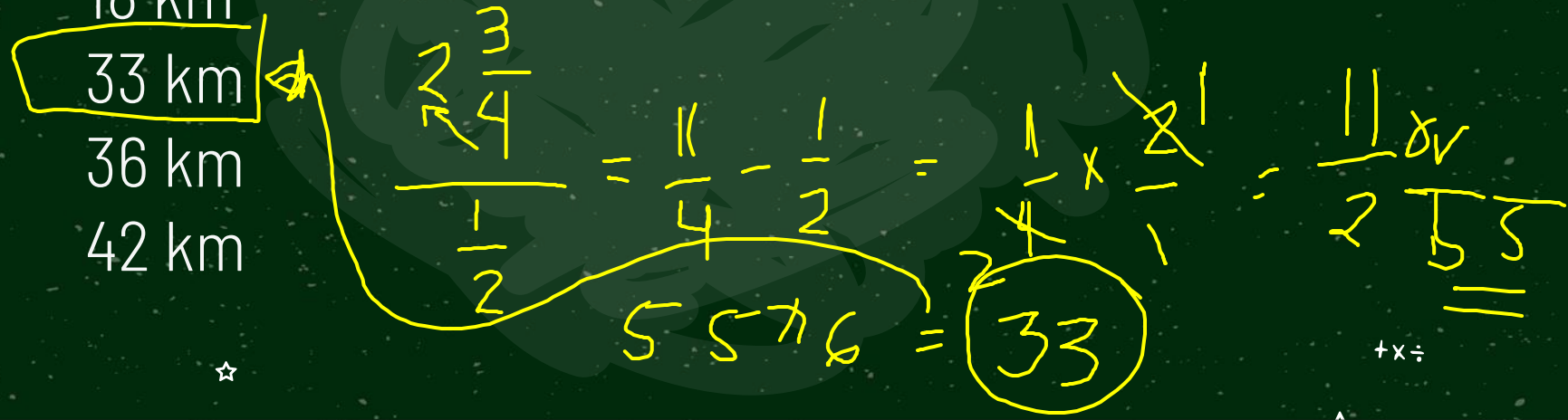
4. The distance between twotowns on a given mapis 2 ¾ cm. If ½ cm represents 6 km, what is the distance between two towns?

a. 18 km

b. 33 km

c. 36 km

d. 42 km



Students choose an option

Discount

5. Margo paid PHP 400 for a blouse. If the blouse was sold at 20% discount, what was its original price?

a. PHP 80

b. PHP 480

c. PHP 500

d. PHP 540

$RP = \frac{SP}{1-DR} = \frac{400}{1-0.2} = \frac{400}{0.8} = ₱500$

Students choose an option

$$RP = \frac{SP}{1-DR}$$

$SP = 400$ M ~~P~~ 500

$DR = ?$

$$\left[500 = \frac{400}{(1-DR)}\right]$$

$$\frac{500(1-DR)}{500} = \frac{400}{500}$$

$$1-DR = 0.8$$

$$-DR = 0.8 - 1$$

$$\frac{-DR}{-1} = \frac{-0.2}{-1}$$

$$DR = 0.2$$

20%

6. In a sequence of starts and stops, an elevator travels from the first floor to the fifth floor and then to the second floor. From there, the elevator travels to the fourth floor and then to the third floor. If the floors are 4 meters apart, how far has the elevator traveled?

a. 24 m

b. 36 m

c. 40 m

d. 60 m

1st - 5th = 4 +

5th - 2nd = 3 +

2nd - 4th = 2 +

4th - 3rd = 1

10 x 4 = 40

Students choose an option

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-1 , -2

7. Which of the following has the greatest value?

a. 0.351

b. 35/100 = 0.35

c. 3/10 = 0.30

d. 3/9 = 0.333

-0.35 -0.357

Students choose an option

8. Which of the following numbers is greater than -3/2?

a. -4/3

b. -3

c. -7/4

d. -2

Students choose an option

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9. Simplify 1/3 + 2/5 – 2/6

a. 1/14

b. 1/5

c. 2/3

d. 2/5

$$\left[\frac{1}{3}+\frac{2}{5}-\frac{1}{6}\right]30$$

$$\frac{10+12-10}{30}=\frac{12}{30}=\frac{2}{5}$$

Students choose an option

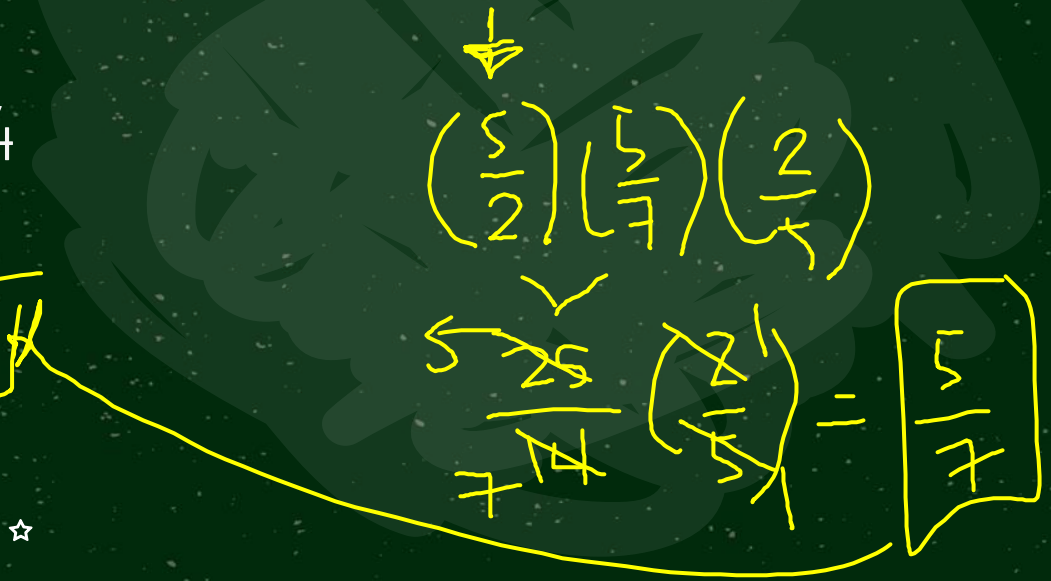
10. Find the product: (2 ½)(5/7)(2/5)

a. 0

b. 5/14

c. 1

d. 5/7



Students choose an option


10:00

$2(-3)^2-(-4)(-5)-2$ GEMDAS

11. Simplify: ~~$2(-3)2-4(-4)(-5)-2$~~?

a. -4

b. 14

c. 28

d. 10

$2(9)-(-4)(-5)-2$

$=18-20-2$

$=-2-2$

$=-4$

Students choose an option

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$6 \div 2 \times 3$

$6 - 6$

1

$6 \div 2 \times 3$

3×3

9

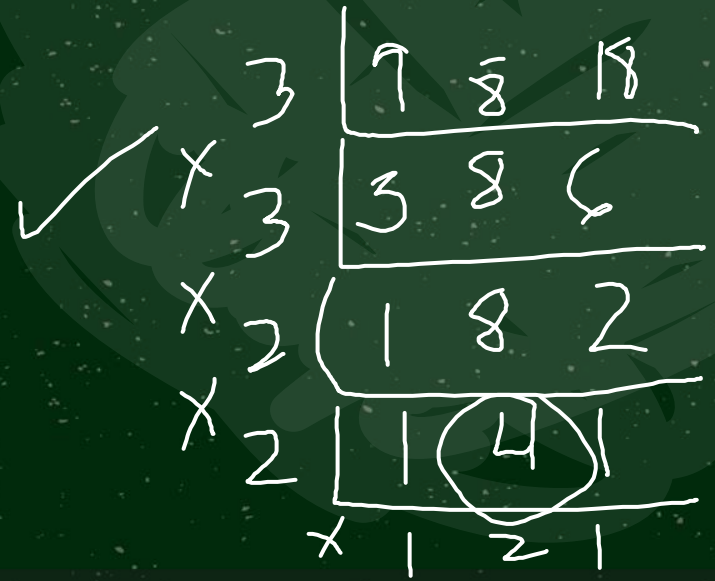
12. What is the least common multiple of 9, 8, and 8?

a. 36

b. 54

c. 72

d. 144



Students choose an option

$\sqrt{123}$

div$_8$ = last 3 digits

13. What are the two digits which when inserted in the blank spaces will make 234__ divisible by 8?

a. 3 and 2 → 23432

b. 5 and 6 → 23456

c. 0 and 0 → 23400

d. All of the above

$8 \overline{)432}$ → 54

$8 \overline{)456}$ → 57

$57 \times 8 = 456$

$8 \overline{)400}$ → 50

$50 \times 8 = 400$

Students choose an option

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14. Which of the following is NOT true about the sum of two consecutive odd integers?

a. It is even

b. It is divisible by 4

c. It is divisible only by 12

d. It is always divisible by 1

15. The ratio of the number of boys to the number of girls in a class is 2:3. If there are 40 students in the class, how many boys are there?

a. 8

b. 16

c. 18

d. 24

x = # of students

$2x$ = boys

$3x$ = girls

$2x + 3x = 40$

$\frac{5x}{5} = \frac{40}{5}$

$x = 8$

$2x = \text{boys} = 2(8) = 16$

Students choose an option

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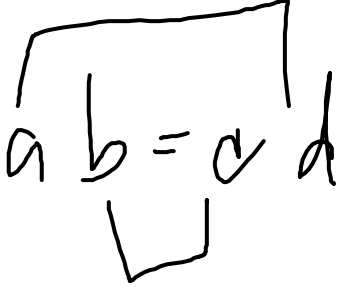
DIRECT → ↑, ↑ , ↓, ↓



INDIRECT → ↑, ↓ , ↓, ↑ a/b = c/d

PARTITIVE → partition

DIRECT

16. Mrs. Jimenez paid PHP 94.50 for 3 ½ dozens of eggs. How much would 2 dozens of such eggs cost?

a. 50.50

b. 54.00

c. 55.00

d. 56.00

$94.50 \quad 3.5 = x \quad :2$

$3.5x = 94.50 \times 2$

$\frac{3.5x}{3.5} = \frac{189}{3.5}$

$x = 54$

Students choose an option

17. Arthur divides his day into leisure, sleep, and work in the ratio 1:2:3. How many hours does he spend working?

a. 4
b. 8
c. 10
d. 12

Let x = the time

x - leisure

$2x$ - sleep

$3x$ - work

$3(4) = 12$

$x + 2x + 3x = 24$

$\frac{6x}{6} = \frac{24}{6}$

$x = 4$

Students choose an option

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Indirect

18. It takes 20 men to build a house for 60 days. How many men will be needed to build one in only 15 days?

a. 5

b. 80

c. 100

d. 120

$20(60) = x(15)$

$\frac{1200}{15} = \frac{15x}{15}$

$x = 80$

Students choose an option

20. In a class of 40 students, 40% are boys. How many are girls?

a. 16

b. 18

c. 22

d. 24

Students choose an option


10:00

21. In an examination, 24% of the students failed in math and 33% in science. If 9% of the students failed in both subjects, find the percent of students who passed in both subjects.

a. 43%

b. 48%

c. 52%

d. 81%

failed m = 24%

failed s = 33%

57%

− 9%

48%

Students choose an option

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22. On board an inter-island ship, 25% of the passengers travel 1st class, 30% travel 2nd class, and 729 travel 3rd class. How many passengers are there?

a. 1254
b. 1480
c. 1560
d. 1620

1st = 25%
2nd = 30%
3rd = 45%

729 / 45 = 1,620

Students choose an option

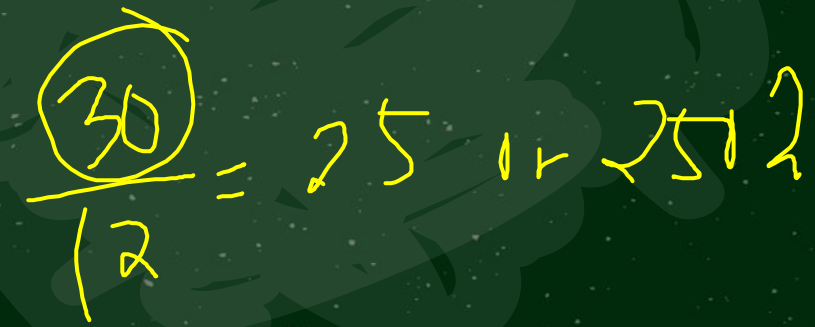
23. The introductory price of a certain item was PHP 12. What is the percent increase in the price of the item if two years later its price reachers PHP 42?

a. 150%

b. 200%

c. 250%

d. 300%



Students choose an option

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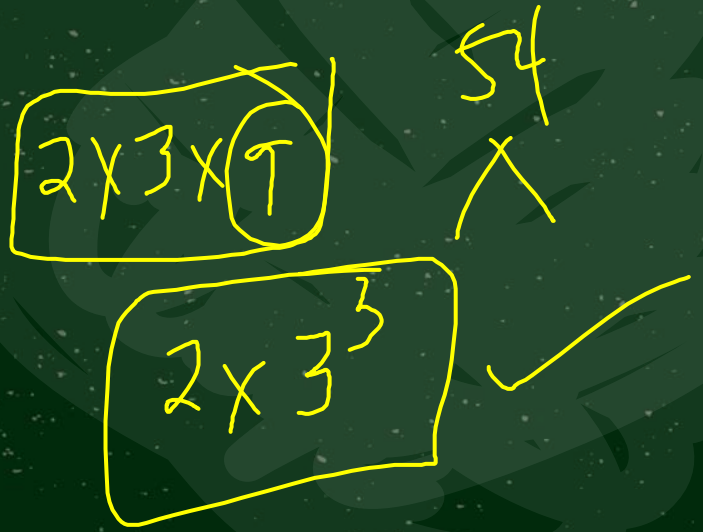
24. Which of the following gives the prime factorization of 54?

a. 22 x 32

b. 2 x 33

c. 23 x 33

d. 23 x 3



Students choose an option

25. A boat travels 8 kph in still water. If it can travel a given distance upstream in 5 hours and the same distance downstream in 3 hours, what is the rate of the current?

a. 2
b. 5
c. 6
d. 9

x = speed

8 − x = US

8 + x = DS

d = rt

5(8 − x) = 3(8 + x)

40 − 5x = 24 + 3x

8x = 16

x = 2

Students choose an option

26. What is the value of x – 6 if 2(x-3) + 5 = 19?

a. -1

b. 4

c. 16

d. 20

10 - 6

4

2x - 6 + 5 = 19

2x - 1 = 19

2x = 20

2 2

x = 10

Students choose an option

27. Apo weighs one third as much as her mother Angela. If Apo weighs 43.5 lbs., how much does Angela weigh?

a. 62.5

b. 95.7

c. 130.5

d. 150

x = Apo

y = Angela

$x = \frac{1}{3}y$

$x = 43.5$

$3 \quad 43.5 = \frac{1}{3}y$

$130.5 = y$

+ × ÷

Students choose an option

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28. Lucille is 4 times as old as Nicole. Six years from now, she will be twice as old as Nicole. How old are they now?

a. Lucille 12; Nicole 3

b. Lucille 16; Nicole 4

c. Lucille 3, Nicole 12

d. Lucille 4, Nicole 16

	now	6 yrs
Lucille	x	$4x+6$
Nicole	x	3	$x+6$

$4x+6 = 2(x+6)$

$4x+6 = 2x+12$

$2x = 6$

$\frac{2x}{2} = \frac{6}{2}$

$x = 3$

Students choose an option

29. The sum of two numbers is 52 and their difference is 20. What is the larger number?

a. 16

b. 26

c. 36

d. 46

$x + y = 52$

$x - y = 20$

$\frac{2x}{2} = \frac{72}{2}$

$x = 36$

$y = 16$

Students choose an option

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30. Two numbers are in the ratio 4:3. What are the numbers if their sum is 84?

a. 36 and 48

b. 36 and 24

c. 24 and 63

d. 12 and 36

$4x+3x=84$

$\frac{7x}{7}=\frac{84}{7}$

$x=12$

48

36