PSSA and Keystone Exams
Summer 2023 Workshops

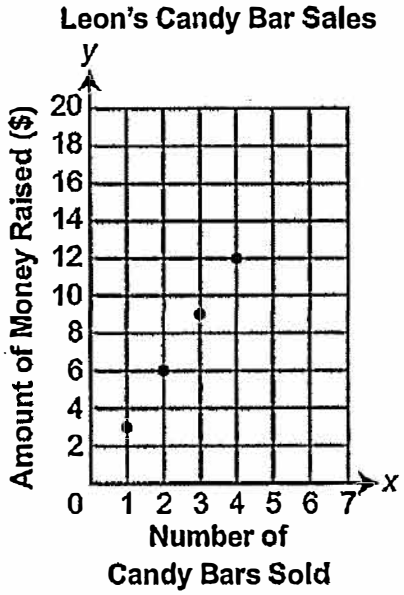
# PSSA, Grade 5 Math

## *Leon's Candy Bar Sales*

Handscoring
Training Set 2

MATHEMATICS SECTION 2

51. Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

A. Which axis represents the number of candy bars sold?

The X-axis

B. Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

(6, 18)

MATHEMATICS SECTION 2

51. ***Continued.*** Please refer to the previous page for task explanation.

C. Explain why it is **not** possible for any of the points on the graph to have a *y*-coordinate of 77.

It is not possible because it would be a long grid to make and it will take a long time to make.

Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

D. What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

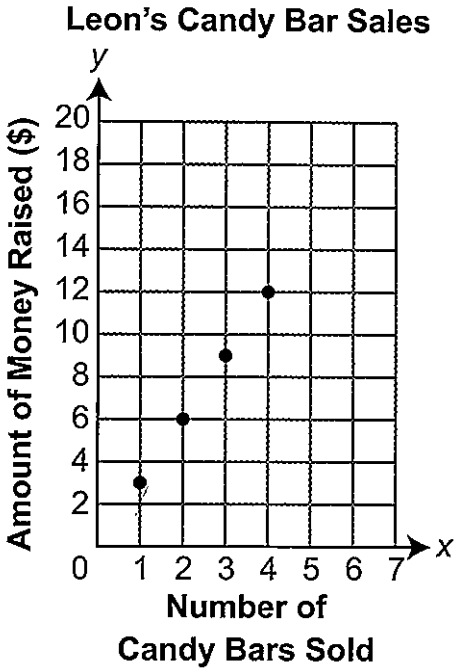
240 x 2.5 = 600

600 ÷ 3 = 200

200 is the fewest amount of candy bars to sell.

Answer = 200

Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

**A.** Which axis represents the number of candy bars sold?

The y-axis represents the number of candy bars sold because the amount of money raised keeps going upwards instead of downwards.

**B.** Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

( 5 , 15 )

***Continued.*** Please refer to the previous page for task explanation.

**C.** Explain why it is **not** possible for any of the points on the graph to have a *y*-coordinate of 77.

Because it would be pass the y-coordinate of $20 and it wouldn't maked sense for the question and/or reader

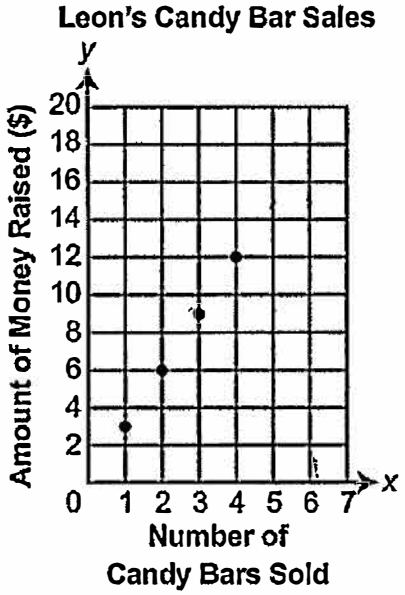
Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

**D.** What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

The fewest candy bars Leon needs to sell is at least 4 so he can get more money and lower the price a little bit.

MATHEMATICS SECTION 2

51. Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

A. Which axis represents the number of candy bars sold?

The "X" axis represents the number of Candy bars sold.

B. Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

( 6 , 18 )

MATHEMATICS SECTION 2

**51.** ***Continued.*** Please refer to the previous page for task explanation.

**C.** Explain why it is **not** possible for any of the points on the graph to have a *y*-coordinate of 77.

because each time some one buys a candy bar the donations increase by 3$, so every amount of money in the donation jar has to be a multiple of 3, and when you divide 77 by 3 you get 25 R2 which means 77 is not possible

Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

**D.** What is the fewest candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

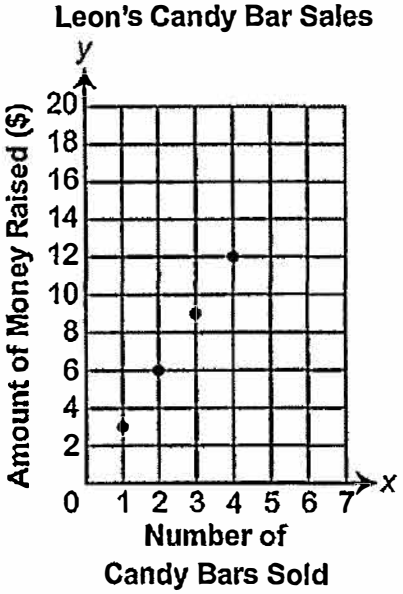
240
x 2.5
1200
480.0
600.0

200
3|600
6|V
000

Leon needs to sell at least 200 candy bars to reach his goal.

MATHEMATICS SECTION 2

51. Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

A. Which axis represents the number of candy bars sold?

(4, 12)

B. Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

(6, 16)

T2-4

MATHEMATICS SECTION 2

51. ***Continued.*** Please refer to the previous page for task explanation.

C. Explain why it is **not** possible for any of the points on the graph to have a y-coordinate of 77.

77 should not be on the y-coordinate because all the numbers are even, but 77 is not even so it can't go on the y-coordinate.

Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

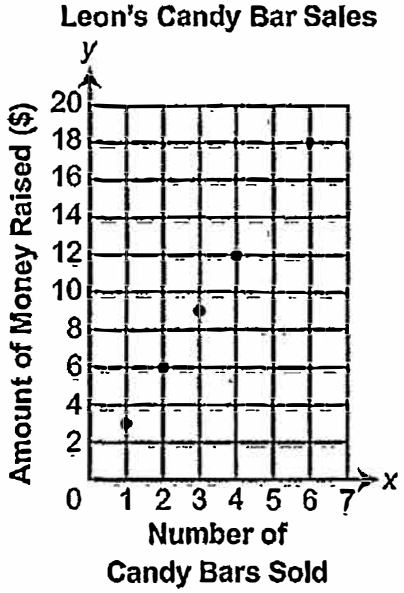
D. What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

The fewest amount is 96 candy bars because $240 ÷ 2.5 = 96 so the fewest amout of candy bars Leon needs to sell is 96 candy bars.

T2-5

## MATHEMATICS SECTION 2

51. Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

A. Which axis represents the number of candy bars sold?

X axis

B. Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

(6, 18)

T2-5

MATHEMATICS SECTION 2

51. ***Continued.*** Please refer to the previous page for task explanation.

C. Explain why it is **not** possible for any of the points on the graph to have a y-coordinate of 77.

Because, 77 can't be made up of 3 because each candy bar is $3 and 3 doesn't go into 77 equally.

Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

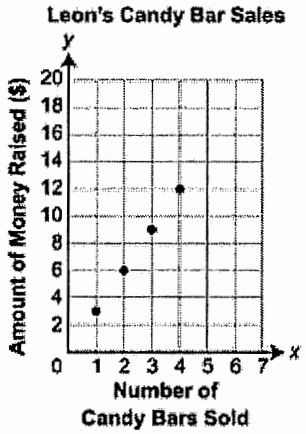
D. What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

240÷3=80

240×2.5=600

600÷3=200 candy bars

Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

**A.** Which axis represents the number of candy bars sold?

*the x – axis*

**B.** Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

(
6,16
)

16,6

**C.** Explain why it is **not** possible for any of the points on the graph to have a *y*-coordinate of 77.

It is not possible because the y-axis is counting the money Leon earned by 2, bt if it was counting by 11 then getting to 77 is possible.

137 / 1000

Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

**D.** What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

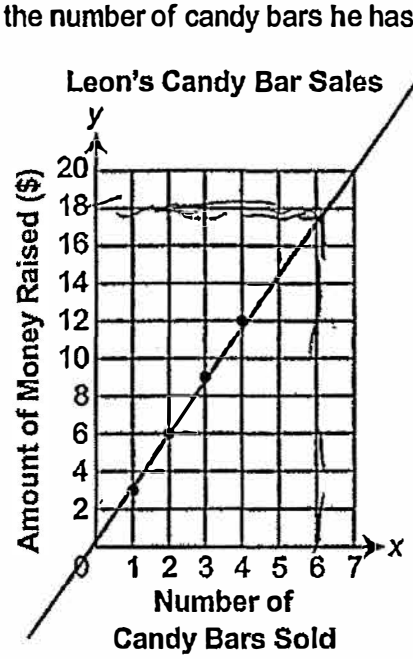
The fewest number of candy bars Leon needs to sell is 33 candy bars.

18x33+6=600

84 / 1000

MATHEMATICS SECTION 2

51. Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

A. Which axis represents the number of candy bars sold?

7 because 7 is the hiyest number on the grid for candy Bars sold.

B. Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

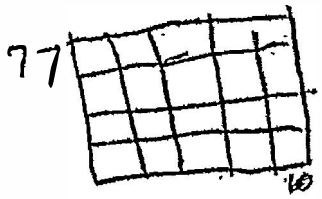
(6, 18)

MATHEMATICS SECTION 2

**51.** ***Continued.*** Please refer to the previous page for task explanation.

**C.** Explain why it is **not** possible for any of the points on the graph to have a *y*-coordinate of 77.

77 can not because it is not and it has none to equal it so he can not




Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

**D.** What is the fewest candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

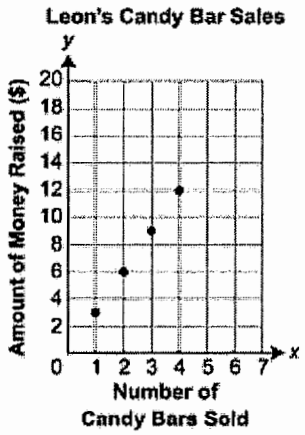
240x2.5=600

600÷2=300

300 is the answer

2 is from the → 2 4 6 8

Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

**A.** Which axis represents the number of candy bars sold?

The $x$ axis represents the number of candy bars sold

**B.** Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

( 6 )

( 18 )

**C.** Explain why it is **not** possible for any of the points on the graph to have a $y$-coordinate of 77.

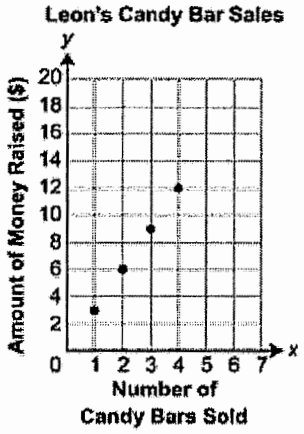
It is not possible for any of the points on the graph to have a y-coordinate of 77 because 77 is not a multiple of 3.

Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

**D.** What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

The fewest amount of candy bars Leon needs to sell to reach his goal is 200. I did this by doing $200 \times \$3.00 = \$600.00$ which reaches his goal of $600.00 dollars. That is why 200 candy bars are the least amount of candy bars he needs to sell to reach his goal of $600.00 dollars.

Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

**A.** Which axis represents the number of candy bars sold?

The x axis is the number of candy bars sold

**B.** Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

( 6 )

( 15 )

**C.** Explain why it is **not** possible for any of the points on the graph to have a *y*-coordinate of 77.

It is not possible because 77 is not a multiple of 3 and they are going by 3s.

78 / 1000

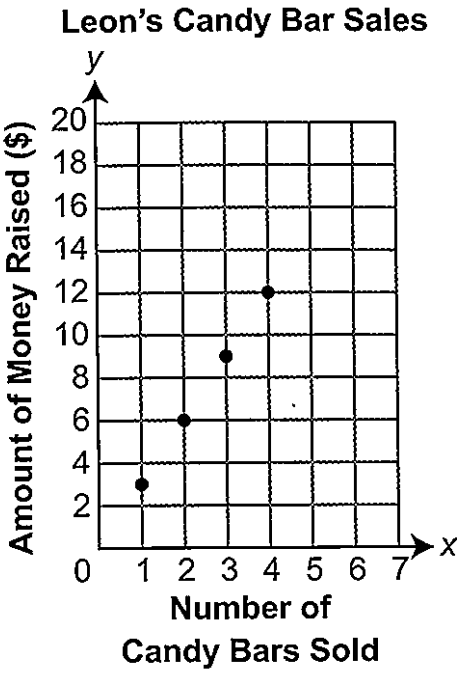
Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

**D.** What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

The fewest money he needs to raise is 588. i did the amount of his goal and it was 600, I got that by multipling 2.5 and 240 and then i took the amount for this year and subracted it from how much he already sold so i did, 600-12=588 and i got 12 from the chart, he sold 5 candy bars for 12 dollars

298 / 1000

Leon is selling candy bars for a school fundraiser. He raises $3.00 for each candy bar he sells. The graph shown below represents the total amount of money, in dollars, Leon has raised based on the number of candy bars he has sold.




The pattern continues.

**A.** Which axis represents the number of candy bars sold?

x axis

**B.** Write the ordered pair that represents the amount of money Leon raises for selling 6 candy bars.

( 6 , 18 )

***Continued.*** Please refer to the previous page for task explanation.

**C.** Explain why it is **not** possible for any of the points on the graph to have a *y*-coordinate of 77.

Because it is not an even number

Last year, Leon raised a total of $240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

**D.** What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

200 candy bars

because 600 ÷ 3.00 = 200

PSSA Math: Leon's Candy Bar Sales (Grade 5), Training Set Two

Subject: Math Item: Leon's Candy Bar Sales Grade: 5

Name _____

| Number | Score | Notes |
|---|---|---|
| **T2-1** | | |
| **T2-2** | | |
| **T2-3** | | |
| **T2-4** | | |
| **T2-5** | | |
| **T2-6** | | |
| **T2-7** | | |
| **T2-8** | | |
| **T2-9** | | |
| **T2-10** | | |