

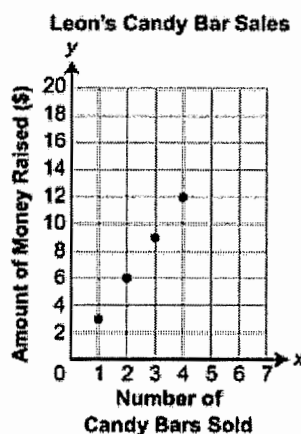
PSSA and Keystone Exams
Summer 2023 Workshops

PSSA, Grade 5 Math

Leon's Candy Bar Sales

Handscoring
Training Set 1

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.

18
00

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

the y coordinate only goes up to 20

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.

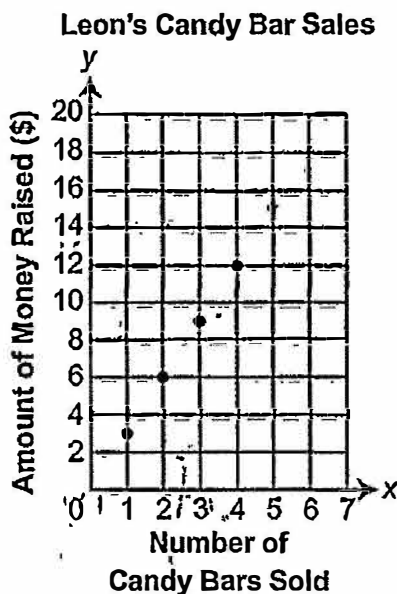
3 candy bars are the fewest



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.

because you won't
go that high and
it's not a
factor of two
or three, which is what
the y-axis uses.

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.

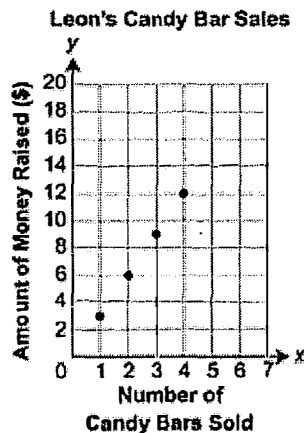
- D. What is the **fewest** candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

200 candy bars

$$\begin{array}{r} 240.0 \\ \times 2.5 \\ \hline 600 \end{array}$$

$$\begin{array}{r} 200 \\ 3 \overline{)600} \end{array}$$

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

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 to have a y-coordinate of 77. I know this because the y axis is counting by two's and 77 won't fit into two. For example, if you start counting .. two, four, six, eight. You can clearly tell that it skipped seven because seven can not fit into two.

264 T 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 that he needs to sell is 600. I know this because that's right on the dot of his goal. If Leon wants to succeed, he must reach at least 600 candy bars to sell throughout the whole year. If he does not reach 600 candy bars in a year, he will not reach his goal for the year.

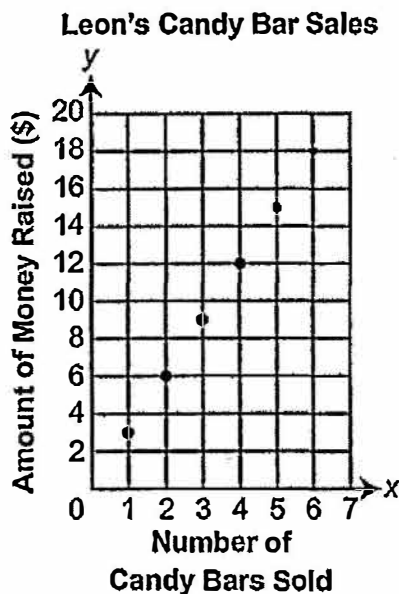
305 T 1000



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?

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.

Because even if you keep on adding a candy bar for \$3.00 you would never get \$77 dollar
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.

$$240 \times 2.5 = 600$$

$$\begin{array}{r} 200 \text{ candy bars} \\ 3 \overline{) 600} \\ \underline{3} \\ 000 \end{array}$$

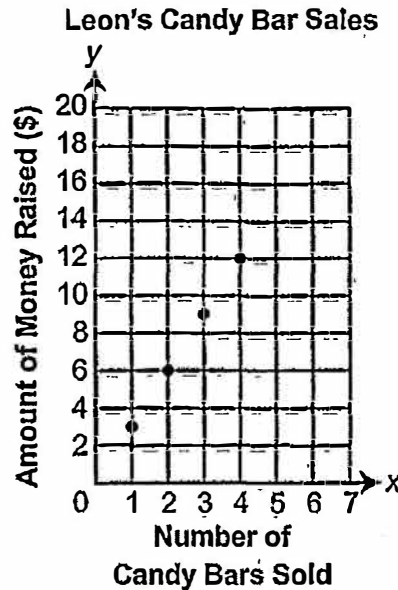
to sell to reach his goal for this year.



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?

four, twelve

- 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.

even 5. Because the y coordinate is an

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.

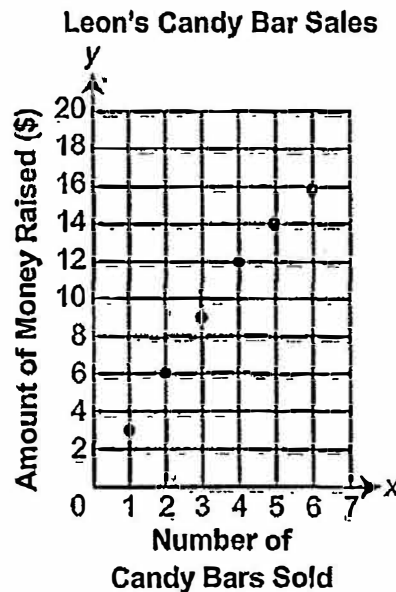
two hundred thirty seven and five tenths because you would do two hundred forty minus two and five tenths



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

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

(18, 6)



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.

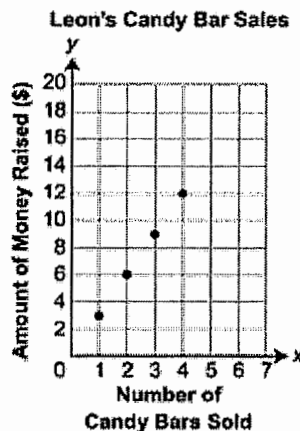
because the y axis only goes
to 20

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.

96 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 tells 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	
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18	
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C. Explain why it is not possible for any of the points on the graph to have a y-coordinate of 77.

Because if you keep continuing the pattern by two, you wouldn't count to 77 because it's an odd number.

101 / 1000

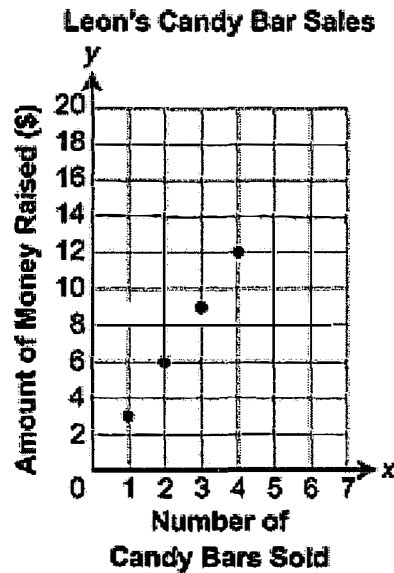
Last year, Leon raised a total of \$240 from his candy bar sales. This year, his goal is to raise at least 2.5 times that amount.

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 numbers of candy bars he needs to sell to reach his goal is 120 bars of candy. I did \$240 his earnings last year \times 1.5 how much he wants to increase his goal by and got 360, then I did $360 \div \$3.00$ per bar, to get 120 bars as his goal.

737 / 1000

Leon is selling candy bars for a school fundraiser. He raises \$3.00 for each candy bar he sells. The graph shown below shows the 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?

12 \$ selling 4

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

(

6

16

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

not enough

11 / 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.

3x 21

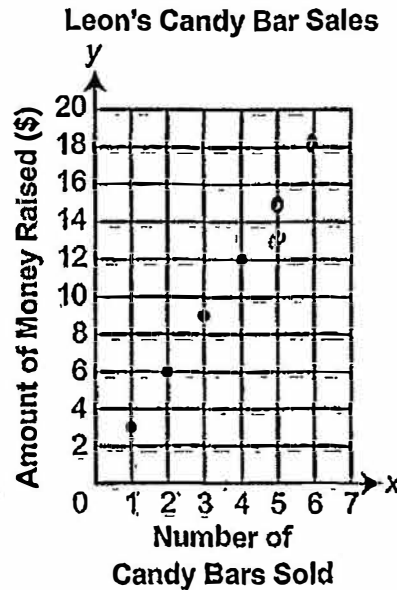
7 / 1000



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?

X-axis

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

(6, 18)

F

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 the count goes up by 2s
and 77 is odd not even like the
2s.

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.

$$\begin{array}{r}
 240 \\
 \times 2.5 \\
 \hline
 1200 \\
 4800 \\
 \hline
 600.0 \\
 \$600 \leftarrow \text{goal}
 \end{array}$$

$$\begin{array}{r}
 200 \\
 3 \overline{) 600} \\
 \underline{-600} \\
 000 \\
 \underline{-000} \\
 0
 \end{array}$$

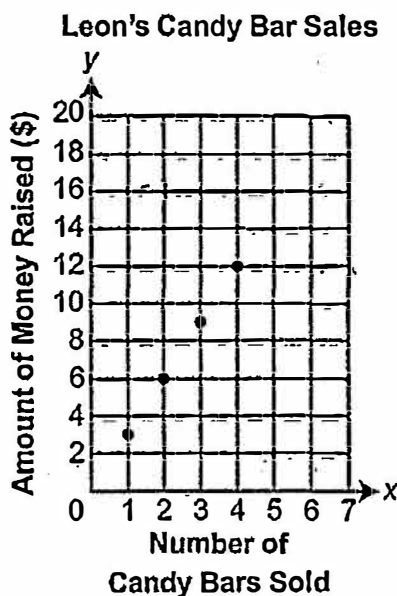
200 candy bars



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)

1

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 3 does not evenly divide into 77.

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.

① 240
 $\times 2.5$

 600.0
 *This shows how much money he needs for his goal.

② $\frac{240}{3} = 80$
 $80 \times 2.5 = 200$
 *Based off of how much money he raised last year I can then divide that number (80) by \$3 for each candy bar.

He must sell at least 200 candy bars this year to meet a goal of 600 dollars raised total.

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

Subject: Math

Item: Leon's Candy Bar Sales

Grade: 5

Name _____

Number	Score	Notes
T1-1		
T1-2		
T1-3		
T1-4		
T1-5		
T1-6		
T1-7		
T1-8		
T1-9		
T1-10		