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.

$$
(6,18)
$$

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.

$$
\begin{aligned}
& 240 \times 2.5=600 \\
& 600 \div 3=200
\end{aligned}
$$

200 is the fewest amount of candy bars to sell.

Anger $=200$

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?
cine $y$-axis represents the number
of candybars 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.

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 would int make sense for the question andlor 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?

$$
\begin{aligned}
& \text { The "X "axis represents the nowhere of } \\
& \text { Candy brig sold. }
\end{aligned}
$$

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

$$
(6,18)
$$

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 tire sone are boys a candy
 ament of money in the dosistion our his to be a multiple of 3 , and when your derisive 71 by 3 you get $25 \mathrm{R2}$ Which mans ${ }^{71 \text { isatpraild }}$

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.

$$
\begin{array}{r}
240 \\
2 \quad 2.8 \\
\hline 120.0 \\
\hline 480.0 \\
\hline 600.0
\end{array}
$$



## 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.

$$
(\underline{6}, 16)
$$

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 .
7. should not be on the $y$-coordinate because all the numbers are even. but 77 is not even so it cant go onthey-coordinate.

Last year, Leon raised a total of $\$ 240$ from his candy barsales., 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 candlybars because $\$ 240 \div 2.5=196$ so the fewest about of candy bars Leon needs to sell is 96 candy bars.
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?

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

$$
(6,18)
$$

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

$$
\begin{aligned}
& \text { Because beicuave cont beach canty bal up } \\
& \text { of } \\
& \text { is } \$ 3 \text { and \& doesn't go into } 77 \text { equally. }
\end{aligned}
$$

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.

1600
D. What is the fewest candy bars Leon needs to sell to reach his goal for this year? Show or explain all your work.

$$
\begin{aligned}
240 \div 3= & 80 \\
& 240 \times 2.5=600 \\
& 600 \div 3=200 \text { candy bar }
\end{aligned}
$$

Leon is selling candy bars for a school fundraiser, Ho raises $\$ 3.00$ for each candy bar he solls. The graph shown balow represents the lotal amount of money, in doilart, Leon has mised based on the number of cardy bas he hats sold.


The pattern continues.
A. Which axis represents the numbor of candy bars sald?
the $x$-aris
B. Write the ordered pair that represents the amount of money Leon ralses for selling 6 cendy bars.

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

It is nol possible because the y-axls is counting the money Leon eamed by
2. bt if it was counting by 11 then getting to 77 is possible.

137:1002

Lasf year, Leon raised a total of $\$ 240$ from his candy bar sales. This year, his goal is to raise al least 2.5 times that amount.
D. What is the fowest candy bars Leon needs to sall to reach his goal for thls year? Show or explain all your work.

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

```
\(18 \times 33+6=600\)
```

anc 41xab

## - 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 becoose 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 nat


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.

$$
\begin{aligned}
& 240 \times 2.5=600 \\
& 600 \div 2=300
\end{aligned}
$$

300 is the answer
2 is from

$$
\text { the } \lambda_{12}=\frac{8}{4}
$$

Leon is selling candy bars for a school fundraisor, He raises $\$ 3,00$ for each candy bar he sells. The graph shown below represents the tolal amount of money, in dollars, Leon has raised based on the number of candy bats he has sold.


The pattern continues.
A. Which axis tepresents the number of candy bers sold?

The $x$ axis represents the
mumber of candy bars sotd
B. Write the ordered pair that reprosents the amount of monoy Leon raises for selling 6 candy bars.

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

It is not possible for any of the poinis on the grapin to have a y-coordinate of 77 because 77 is nol a multiple of 3 .
F1e: 1000

Last year, Leon raised a total of $\$ 240$ from his candy bar sales. This year, his goal is to raise al least 2.5 times that amount.
D. What is the fewest candy bars Leon needs to seal to reach his goal for his year? Show or explain all your work.

The fewest monount of candy bats Leon needs to sell to raach his goal is 200, Idid 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.
27る 14 4

Leon is selling condy bars for a school fundraiser. Ho misas $\$ 3.00$ for each candy bar ha sels. The graph shown below reprosents the total armount of money, if dollars, Eeon hos rased based on the number of candy bars he has sold.


The pattern continues.
A. Which axis tepresents the numbor ol candy bars eotd?

The x axis is the number of
candy bats sold
B. Write the ordored pair thal represents the amount of monoy Loon fases for selling 6 candy bars,

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 bedause 77 is not a multiple of 3 and they are going by
35 .


Last year, Leon raised a total of $\$ 240$ from his candy har 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 peach tis goal for thls year? Show or axpifin all your work.

The fewest money he needs to raise its 588 , idid the amount of his goal and it was 600 , igot that by mutipling 2.5 and 240 and thon I took the amount for this year and subracted it from how much he already sofd so 1 did, 600-12=588 and i got 12 from the chant, he sold 5 candy bars for 12 dollins
2901 3009

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?

$$
\times a \times 15
$$

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.

$$
\begin{aligned}
& 200 \text { candy bars } \\
& \text { because } 600 \div 3.00=200
\end{aligned}
$$

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 | . |  |  |

