Grade 9 - Benchmark 2
Constructed Response

Solve the problem below. Show your work in the box.

On Tuesday, Shamika asked her classmates how much time they spent doing homework and watching TV on Monday evening. The figure above shows a scatterplot of the results and a line of fit.

Ricky was absent on Tuesday. On Wednesday, Ricky said he didn’t remember how much time he spent watching TV on Monday evening, but he knew that he spent one and a half hours doing homework. Use the figure above to estimate how much time Ricky spent watching TV on Monday.

Answer: 

Explain how you determined your answer.

It says he spent a half an hour doing homework so I pointed it out on the graph and I went over 1 and went all the way down and it gave me 0.5
On Tuesday, Shamika asked her classmates how much time they spent doing homework and watching TV on Monday evening. The figure above shows a scatterplot of the results and a line of fit.

Ricky was absent on Tuesday. On Wednesday, Ricky said he didn't remember how much time he spent watching TV on Monday evening, but he knew that he spent one and a half hours doing homework. Use the figure above to estimate how much time Ricky spent watching TV on Monday.

Answer: 1.5

Explain how you determined your answer.

\[ y = 2 - x \]
\[ 1.5 = 2 - x \]

Plug in 1.5 - 0.5 and you get 0.5 (30 min) \[ x = 30 \]

30 minutes
Name:

Grade 9 – Benchmark 2
Constructed Response

Solve the problem below. Show your work in the box.

On Tuesday, Shamika asked her classmates how much time they spent doing homework and watching TV on Monday evening. The figure above shows a scatterplot of the results and a line of fit.

Ricky was absent on Tuesday. On Wednesday, Ricky said he didn’t remember how much time he spent watching TV on Monday evening, but he knew that he spent one and a half hours doing homework. Use the figure above to estimate how much time Ricky spent watching TV on Monday.

Answer: \( y = 1.65 \)

Explain how you determined your answer.

\[
\begin{array}{c}
y = 2 - x \\
1.32 = 2 - x \\
1.32 + x = 2.65 \\
\end{array}
\]

Student C
On Tuesday, Shamika asked her classmates how much time they spent doing homework and watching TV on Monday evening. The figure above shows a scatterplot of the results and a line of fit.

Ricky was absent on Tuesday. On Wednesday, Ricky said he didn’t remember how much time he spent watching TV on Monday evening, but he knew that he spent one and a half hours doing homework. Use the figure above to estimate how much time Ricky spent watching TV on Monday.

Answer: 30 min, half hour

Explain how you determined your answer.

First I guess by seeing the graph and most that lasted 1:30 hours lasted 30 mns watching TV.
And to make sure I use the following method.

\[
\begin{align*}
1.5 &= 2 - x \\
-2 &= -2 \\
\therefore -0.5 &= x \\
\therefore x &= -0.5 \\
\text{watching TV}
\end{align*}
\]
Solve the problem below. Show your work in the box.

On Tuesday, Shamika asked her classmates how much time they spent doing homework and watching TV on Monday evening. The figure above shows a scatterplot of the results and a line of fit.

Ricky was absent on Tuesday. On Wednesday, Ricky said he didn’t remember how much time he spent watching TV on Monday evening, but he knew that he spent one and a half hours doing homework. Use the figure above to estimate how much time Ricky spent watching TV on Monday.

Answer: 5 hours watching TV.

Explain how you determined your answer.

\[
\begin{align*}
1.5 + \frac{2-x}{2} &= 2x \\
-2 &= 2x \\
-5 &= x \\
\text{Answer: 5 hours watching TV.}
\end{align*}
\]
Solve the problem below. Show your work in the box.

On Tuesday, Shamika asked her classmates how much time they spent doing homework and watching TV on Monday evening. The figure above shows a scatterplot of the results and a line of fit.

Ricky was absent on Tuesday. On Wednesday, Ricky said he didn’t remember how much time he spent watching TV on Monday evening, but he knew that he spent one and a half hours doing homework. Use the figure above to estimate how much time Ricky spent watching TV on Monday.

Answer: 30 minutes

Explain how you determined your answer.

\[ y = 2 - x \]

When I looked at the y-axis at one \( \frac{1}{2} \) a half hours I went down \( \frac{5}{2} \) and saw \( 0.5 \) or 30 minutes