January 06, 2020

105

PROPORTIONAL REASONING Morning Session

Feb 8-4:43 PM

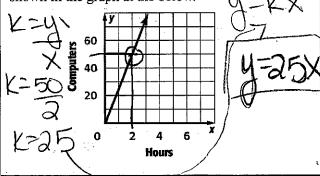
The amount of money earned, y varies directly with the number of hours worked, x. Determine the constant of proportionality for the direct variation. Hours worked Money earned

in the table below what is the dependent variable?

Д.			
<u>\$</u>	У	Hours of Babysitting (h)	Amount Earned (e)
100	マ	3	\$27
A 11	\wedge	5	\$45
k	[- 6	\$54

time -always indopender

proportional The number of computers built varies directly as the number of hours the production line operates. Write an equation to represent the direct variation shown in the graph at the below.



Mar 5-9:07 PM

A Nissan Titan gets 13.5 miles per gallon of gasoline. Gasoline costs \$2.39 per gallon. Find the cost of gasoline required for a 189-mile trip.

14gal needer Ginger is traveling to Sunset Beach 176 miles away from

house. On Ginger's map, her house and the beach are 4 inches apart. What is the scale used for Ginger's map?

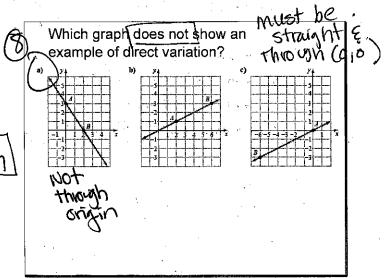
Mar 5-8:09 PM

Pixie drew a scale drawing of her bedroom with a length of 8 inches. The actual length of her room is 12 3/4 ft. The actual length of her bed is $6 \frac{1}{4}$ ft. Approximately, what is the length of the bed in the drawing? Round your answer to the nearest whole number.

A 123/4 ft 6/4 ft
A blueprint for a new house was drawn using a scale of 1 inch = 12.5 feet. What is the scale factor?

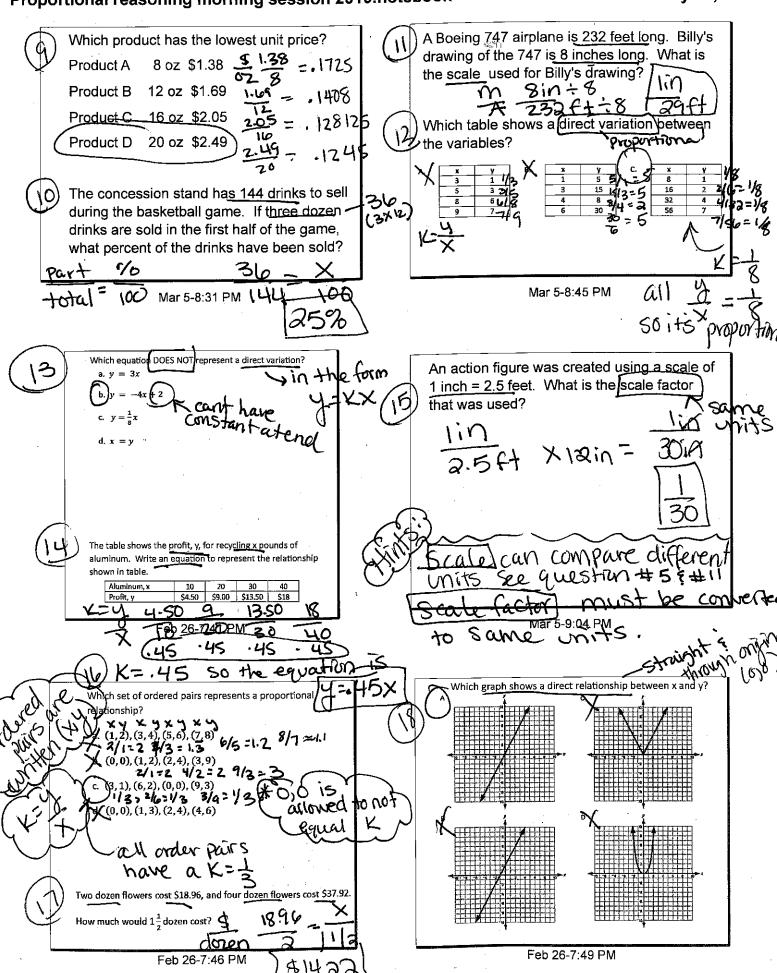
Mar 5-8:17 PM

Xlain =



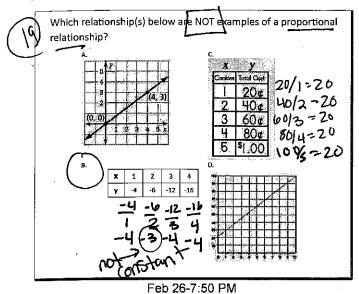
Mar 5-9:22 PM

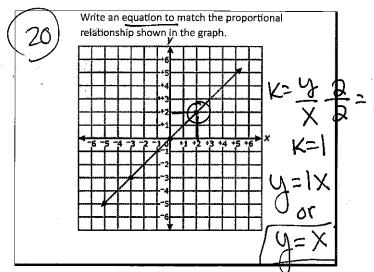
Proportional reasoning morning session 2019.notebook



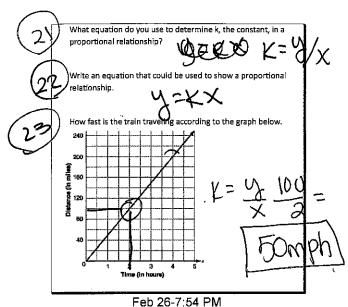
Proportional reasoning morning session 2019.notebook

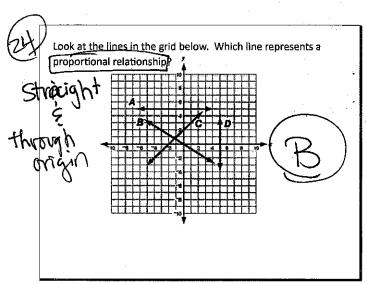
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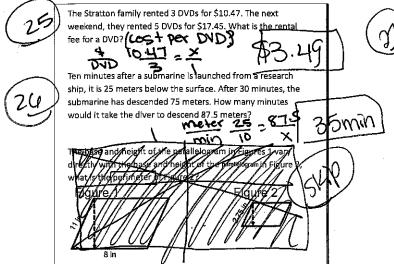


Feb 26-7:53 PM



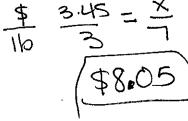


Feb 26-7:58 PM



Feb 26-7:59 PM

A grocery store sells 3 pounds of grapes for \$3.45. Another grocery stores sells 5 pounds of grapes for \$5.75. If the price for grapes varies directly with the number of pounds purchased, how much would you expect to pay for 7 pounds of grapes?



Feb 8-4:38 PM

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18)

The Rawlins family has travelled 600 km on their vacation.

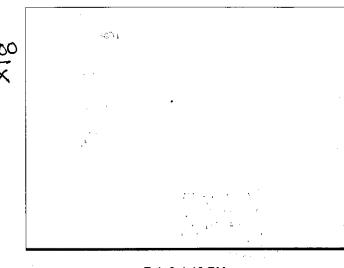
This has taken them 8 hours. If they plan to travel a total of 2100 km, which proportion could be used to find x, the number of hours the total trip will take?

r of hours the total trip will take?
$$\frac{VM}{8} = \frac{x}{2100}$$
 $\frac{600}{8} = \frac{2100}{x}$ $\frac{VM}{N}$ $\frac{600}{8}$

b.
$$\frac{x}{8} = \frac{600}{2100}$$
 d. $\frac{600}{x} = \frac{2100}{8}$



The produce department of a grocery store sold 288 pounds of tomatoes. The weight represented 72% of the shipment the store received. The rest spoiled and had to be discarded. How many pounds of tomatoes were originally received?



Feb 8-4:40 PM

$$\frac{Part}{total} = \frac{\frac{9}{6}}{100}$$

$$\frac{Part}{total} = \frac{\frac{3}{6}}{100}$$

$$\frac{288}{100} = \frac{72}{100}$$

$$\frac{1}{100}$$