

MPM 1DI Unit 5 Lesson 4

Ex. 2: Paula works as a lifeguard. Her total earnings vary directly with the number of hours she works. She earned \$120 for 15 hours of work last week.

a) Find the equation that relates her wages (w) with the number of hours worked (h).





Mass (kg)	Cost (\$)
0	0
2	2.50
4	5,00
6	7.50
8	10.00

c) Write an equation in the form of y = mx



d) Use the graph to estimate how many kgs of bananas could be bought for \$5.75.

About 43kg of bananas can	be purchased for \$5,75
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e) Use the <u>equation</u> to calculate how many kgs of bananas could be bought for \$5.75.

	1.25x=5.75 x = 5.75	/ x= 4.6 .: 4.6 kg of	
Summarizing Direct Variation: 1.25 bananas can be			
	Looks Like	Example	
Equation	y = mx	C= 3.20g	
	where <u>m</u> is the <u>constant</u> multiple (m is a number)	D = 80 t	
Graph	- a line that goes through the origin		
	not direct voriation- does not go through (0,0).	€ 480 320 ± 160 0 12345 t Time (h)	

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