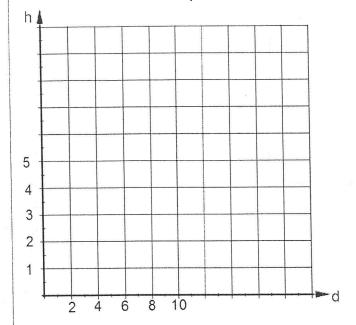


POST	d	h	h d
1		1.5	
2		3	
3		4.5	
4		6	
5		7.5	

Find the ratio $\frac{h}{d}$ for each post.

Make a scatter plot of the data in the table.



d	h
	1.5
	3
	4.5
ng, nagyan (di John Shanna	6
one was the money	7.5

Draw a trend line through the data on the scatter plot.

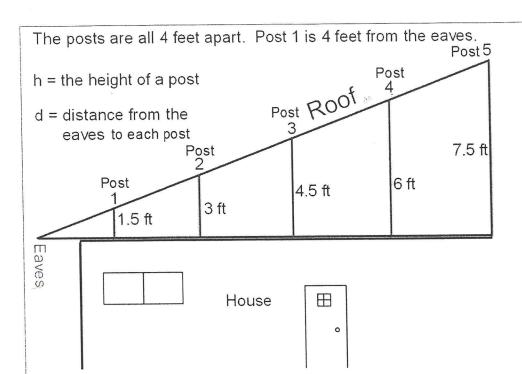
Use the graphing calculator to do a linear regression and find the equation of the trend line.

EQ:

Use this equation to predict the height of a post that is 32 feet from the eaves.

Use this equation to predict the distance from the eaves you should place a post that is 16.5 ft. tall.

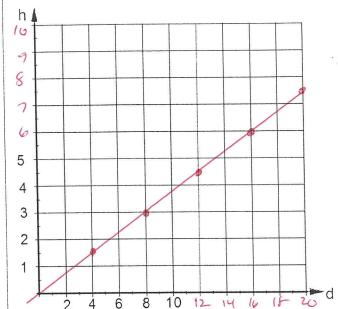
Inswers



Find the ratio $\frac{h}{d}$ for each post.

POST	d	h	h d	
1	4	1.5	15 = 375	Commence of the state of the st
2	8	3	3= .375	Mary Complete Complet
3	12	4.5	45 = 375	Control of the Control of the same of the Control o
4	16	6	6 : 375	_
5	20	7.5	75 .375	

Make a scatter plot of the data in the table.



d	h
4	1.5
8	3
12	4.5
16	6
20	7.5

Draw a trend line through the data on the scatter plot.

Use the graphing calculator to do a linear regression and find the equation of the trend line.

EQ: 4=.375 X -> h=.375 d

Use this equation to predict the height of a post that is 32 feet from the eaves.

h = (375)(32) = 12 ft tall

Use this equation to predict the distance from the eaves you should place a post that is 16.5 ft. tall.

16.5 = .375 d