**Scatterplots and Lines of Best Fit**

What is a scatterplot? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

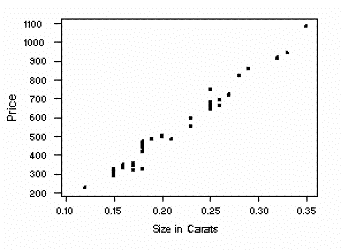
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What is a line of best fit? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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What is the value in creating a scatterplot and a line of best fit? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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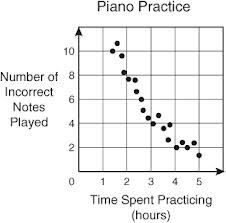


What do you learn from this scatterplot?

Draw a line of best fit?

What would you expect to be the price of a 0.22

carat diamond?

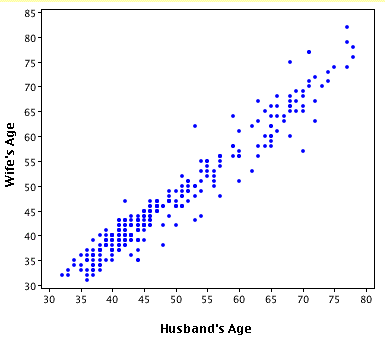
[](http://www.google.ca/imgres?q=scatterplot+image&start=258&hl=en&sa=X&rls=com.microsoft:en-ca:IE-SearchBox&rlz=1I7GGLL_en&biw=1280&bih=631&tbm=isch&prmd=imvns&tbnid=Gjuyi6bYLLsj0M:&imgrefurl=http://www.kidsnewsroom.org/resources/sol/tx/g08m06.html&docid=J1aKnejCcNw01M&imgurl=http://www.kidsnewsroom.org/resources/sol/tx/G08M06/44graphicaa.gif&w=304&h=300&ei=r6lnUI-CLs-O0QHg3YCwDw&zoom=1&iact=hc&vpx=858&vpy=108&dur=2527&hovh=223&hovw=226&tx=146&ty=109&sig=100054358993357898908&page=12&tbnh=144&tbnw=146&ndsp=24&ved=1t:429,r:16,s:258,i:287)

What do you learn from this scatterplot?

Draw a line of best fit?

How many incorrect notes would you expect to make

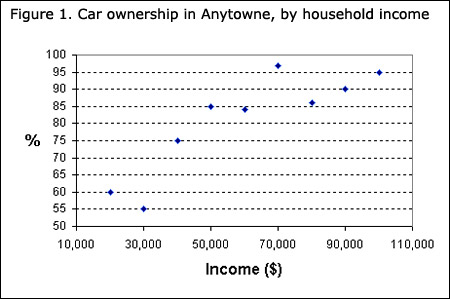
if you practiced for 2.5 hours?



What do you learn from this scatterplot?

Draw a line of best fit?

How old would you expect the wife to be of a husband who is 75 years old?

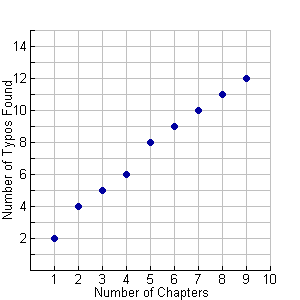


What do you learn from this scatterplot?

Draw a line of best fit?

What percentage of people earning $40 000

would you expect to own a car?

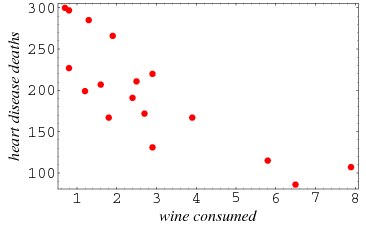


What do you learn from this scatterplot?

Draw a line of best fit?

How many typos would you expect to find in a book with

11 chapters?



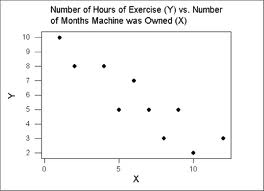
What do you learn from this scatterplot?

Draw a line of best fit?

How many heart disease deaths would you expect to find

in the group of people who consume 5 glasses of wine

a week?

[](http://www.google.ca/imgres?q=scatterplot+image&hl=en&sa=X&rls=com.microsoft:en-ca:IE-SearchBox&rlz=1I7GGLL_en&biw=1280&bih=631&tbm=isch&prmd=imvns&tbnid=ggBaHTDC1HM9rM:&imgrefurl=http://cwx.prenhall.com/bookbind/pubbooks/esm_sincich_pracstats_2/chapter2/custom2/deluxe-content.html&docid=bErWzLmZP4w9kM&imgurl=http://cwx.prenhall.com/bookbind/pubbooks/esm_sincich_pracstats_2/chapter2/medialib/Image27.gif&w=420&h=304&ei=J6lnUPCALMW70AGVooC4DA&zoom=1&iact=hc&vpx=951&vpy=253&dur=156&hovh=191&hovw=264&tx=133&ty=124&sig=100054358993357898908&page=2&tbnh=131&tbnw=181&start=20&ndsp=24&ved=1t:429,r:11,s:20,i:175)

What do you learn from this scatterplot?

Draw a line of best fit?

How many hours would you expect someone

to exercise if they had owned their machine

for 2.5 years?