Unit 6 Quiz Review

Name:	
1) Rick makes \$89,492 per year and wants to budget 2 housing payments. Find this monthly payment.	25% of his salary toward his monthly
2) Barbara makes \$3,400 per month and wants to bud housing payments. Find this monthly payment.	get 30% of her salary toward her monthly
3) Hannah's financial advisor believes that she should monthly income for housing. She has determined the this amount and her advisor's recommendation, where the should be advisor's recommendation.	hat amount is \$1,654 per month. Based on
4) Luke makes \$14.50 per hour. He works 35 hours a in federal and state taxes and saves 10% of his mon renting an apartment that will cost \$1300 per month monthly payments?	nthly gross income. He is considering

5)	The square footage and monthly rental of 30 similar one-bedroom apartments yield the
	linear regression formula $y = 1.3179x + 842.65$, where x represents the square footage and y
	represent the monthly rental price. Round answers to the nearest whole number.

a)	Determine	the monthly	rent for an a	partment with	1600 square fee	et

b) Determine the approximate square footage of an apartment with a monthly rent of \$2800.

6) The length of a room is 21.5 ft. When using a $\frac{1}{4}$ inch = 1 foot scale, what would be the length of the wall on a floor plan?

7) The conference room at Sue's Condo Complex measures 48ft x 36ft.

a) New flooring is being installed and costs \$2.25 per square foot. Use the area formula given below to determine the total cost.

b) Find the volume of the conference room if it has 12 foot ceilings.

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Volume = length x width x height
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8) Max is making garden in his backyard in the shape of a regular hexagon. He wants to make it so the length of each side is 6 feet and the apothem length is 8 feet. Use the area formula below to determine the area of the garden.

Area =
$$0.5 \times apothem \times length of each side \times number of sides$$

9) The main conference room at a town building measures 54 feet by 36 feet and has a 12-foot ceiling. It is well insulated (level 10) and faces the east side of the building. Use the formula given below to determine the correct size of the air conditioner that should be purchased for the room.

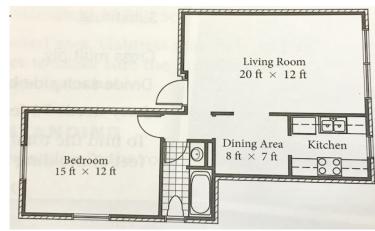
BTU rating
$$\approx \frac{w.h.i.l.e.}{60}$$

w: width of room
h: height of room
i: level of insulation
l: length of room
e: exposure
north: 16 east: 17
south: 18 west: 20

10) Sally wants to carpet the living room and bedroom of the apartment whose floor plan is shown below.

a) What is the total amount of carpet she will need?

b) The carpet she wants costs \$1.92 per square foot. How much will it cost her to carpet these two rooms?



- 11) Kelly wants to buy a house. She earns \$76,000 each year at her job.
 - a) What is her monthly gross income?

b) Her expenses are given below. Determine her monthly total housing expenses.

annual property tax: \$6,900 annual insurance: \$762

monthly mortgage payments: \$1,006

c) Use the front-end ratio to determine if her bank will loan her the money for her mortgage. Remember that the bank wants the front-end ratio to be less than 28%.

front-end ratio = $\frac{monthly\ housing\ expenses}{monthly\ gross\ income}$

- 12) The MacDonald's want to buy a house. They have a gross income of \$135,440.
 - a) What is their monthly gross income?

b) Their monthly expenses are given below. Determine their monthly total expenses.

annual property tax: \$4,280 annual insurance: \$1,740

monthly mortgage payments: \$1,987

monthly car payment: \$480 monthly credit card bill: \$6,200

c) Use the back-end ratio to determine if their bank will loan them the money for their mortgage. Remember that the bank wants the back-end ratio to be less than 36%.

back-end ratio = $\frac{total\ monthly\ expenses}{monthly\ gross\ income}$

13) Mary and Tom are buying a \$480,000 home and made an 18% down payment.
a) How much money did they borrow for their loan?
b) They have been approved for a 5.5% APR mortgage. What will be their annual interest?
c) What will be their daily interest?
d) If they made their down payment on April 23 th , how much will be charged in prepaid interest at the closing?
e) If closing costs are usually between 2% and 7% What might Mary and Tom expect to pay i total at the closing?

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14) Las	st year, Kevin paid a m	onthly condo mainter	nance fee of \$532. T	Twelve percent o	f this fee
COV	vered his monthly prop	perty taxes.			

a) What is his monthly property tax for the condo?

b) How much did Kevin pay last year in property taxes on his condo?