

125 Real Estate Math Problems **SOLVED!**

Sample Questions

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Disclaimer: This manual is intended to provide real estate math practice problems for training purposes only. It is not endorsed by any real estate licensing agencies or real estate boards.

Charles wants to buy a house for \$250,000. If his bank requires a 20% downpayment, what will Charles' downpayment be?

Answer: Charles' downpayment is \$50,000.

Explanation:



Question #25

Sam Seller must walk away with at least \$70,000 from the sale of his house. If he assumes that his costs will be 7% of the sales price, what is the mimimum sales price Sam should accept?

Answer: The minimum sales price that Sam should accept is \$75,269.

Explanation:





The commission structure charged by one of Broker Gene's listings was as follows: When the house sells, half of the 6% commission goes to Broker Gene, who gives 20% to the listing agent. The other half goes to the selling agent's brokerage, who gives 40% to the selling agent. If the sales price of the house was \$287,000, calculate how much the Broker Gene, the listing agent, the selling broker, and the selling agent each receive.

Answer: Please see diagram below for each person's commission.

Explanation:





Ken has an annual salary of \$65,000. If his mortgage payment (PITI) is \$395/month and he has an additional debt of \$109/month. Calculate Ken's front and back end DTI ratios.

Answer: Ken's front end ratio is 0.07 and his back end ratio is 0.19.

Explanation:

<u>Step 1.</u>

Total Monthly Debt = \$395 + \$609 = \$1004 Monthly Income = \$65,000 / 12 months = \$5,417

Step 2.

Front End Ratio = PITI / Monthly Income \$395 / \$5,417 = 0.07

Step 3.

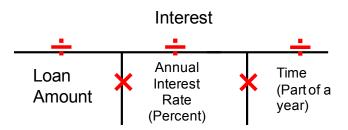
Back End Ratio = Total Debt / Monthly Income \$1004 / \$7,500 = 0.19

Question #69

What amount of interest does ABC Bank receive at the end of 3 years on a \$273,000 loan at 5.5% interest?

Answer: The interest is \$45,045.

Explanation:



Loan: \$273,000

Interest Rate: 5.5% = 0.055

Time: 3 years

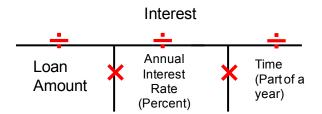
Interest = Loan x Interest Rate x Time $$273,000 \times 0.055 \times 3 = $45,045$



What amount of interest does ABC Bank receive after 2 months on a \$75,000 loan at 3% interest?

Answer: The interest is \$375.

Explanation:



Loan: \$75,000

Interest Rate: 3% = 0.03 Time: 2 months = 0.167 years

Interest = Loan x Interest Rate x Time

 $75,000 \times 0.03 \times 0.167 = 375$

Question #84

What is the legal description of the parcel in the figure below? How many acres is the parcel?

Answer: The legal description is E ½ NW ¼ SW ¼ of Section 12 and it is 20 acres.

Explanation:

Section 12

E $\frac{1}{2}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 12 640 / 2 / 4 / 4 = 20 acres



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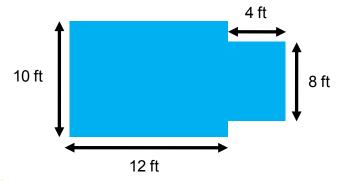
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Question #96

Mr. and Mrs. Johnson want to recarpet their master bedroom, shown in the figure below. If it costs \$2.50/sf for materials, and \$11/sf for labor, calculate the total cost of the replacement.

Answer: The total cost is \$2,052.

Explanation:



Step 1.

Area of Master Bedroom = $10 \times 12 + 4 \times 8 = 152 \text{ sf}$

<u>Step 2.</u>

Material Cost = \$2.50 / sf x 152 sf = \$380 Labor Cost = \$11 / sf x 152 sf = \$1,672 Total Cost = \$380 + \$1672 = \$2,052

Question #112

Real estate agent Martin is estimating the value of a potential listing using the sales comparison approach. The subject property is a 3-bedroom home with a garage. He talks to his broker, who tells him that a garage normally adds \$10,000 in value and a bedroom adds \$25,000. Martin locates the following comparables:

- Comp 1: Sold for 159,900 4-bedroom home, no garage
- Comp 2: Sold for 135, 000 3 bedroom home, no garage
- Comp 3: Sold for 180,000 5-bedroom home, with garage

Calculate the adjusted sale price for all 3 comps. Based on these 3 comps, what is the estimated value of the subject property if all comps are weighed equally?

Answer: The estimated value of the subject property is \$165,000.

Explanation:

Properties	Bedrooms	Garage	Sales Price	Adjustment	Adj. Price
Subject	3	Yes			\$165,000
Comp ₁	4	No	\$159,000	-\$10,000 +25,000	\$174,000
Comp 2	3	No	\$135,000	+25,000	\$160,000
Comp ₃	5	Yes	\$180,000	-20,000	\$160,000



A property has a rental income of \$1300 per month. If the closing date is June 20, how much rent is owed to the buyer at closing (use the 30 day method)?

Answer: Please see chart below.

Explanation: 30 days total

20 days
Seller

June 20
Closing

Rent per day = \$1300 / 30 = \$43.33Rent owed to buyer = $$43.33 \times 10 = 433.30

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