

Principles 2 Math Help



The quarterly interest payment on a loan is \$3,900. The interest rate is 8%. What is the loan amount?



Broker Lily listed a property for \$310,000. She negotiated 6% total compensation and is offering half to the selling (buyer's) broker. Broker Suni sold the house for \$308,000. How much did Suni receive?



Zeke bought a tract of land that measures 1.6 miles by 700 feet. How many acres does Zeke have?



John purchased 87 acres of land. How many square feet of land does he have?



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Lone Star Credit Union is charging 2 discount points and 1 origination point. What amount will the buyer be charged at closing on a \$195,000 loan?

6

Broker Oscar listed a house for \$295,000. He negotiated 5% total compensation and has agreed to give 55% to the selling (buyer's) broker. Broker Ginger sold the house for \$291,000. How much did Broker Ginger make?

7

The Franklin's property has an assessed value of \$297,000. If the tax rate is \$2.35 per hundred, how much are their annual taxes?

8

Janie bought a 4.5 acre tract of land. How many square feet of land does she have?



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Broker Leo listed a property with total compensation of 5%. When the property sold, Leo's half of the commission was \$13,250. What was the sales price of the property?



Cyrus bought an investment property has an annual Gross Scheduled Income of \$325,000 with operating expenses of \$175,000 per year. What is the Net Income?



Fred, a salesperson, earns 55% of his broker's share of a commission. He sold a home for \$295,000 and the listing broker shared half of his 6% commission with the selling (buyer's) broker. How much did Fred make?



The Net Income of Julio's investment property is \$84,000. He has the property listed for \$759,000. What is the Capitalization Rate of Julio's property?



Principles 2

Math Rationale

1

The quarterly interest payment on a loan is \$3,900. The interest rate is 8%. What is the loan amount?

2

Broker Lily listed a property for \$310,000. She negotiated 6% total compensation and is offering half to the selling (buyer's) broker. Broker Suni sold the house for \$308,000. How much did Suni receive?

\$9,240				
3%	\$308,000			

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Zeke bought a tract of land that measures 1.6 miles by 700 feet. How many acres does Zeke have?

5,280 ft x 1.6 miles = 8,448 ft 8,448 ft x 700 ft = 5,913,600 sf 5,913,600 sf / 43,560 sf = **135.76 acres**

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John purchased 87 acres of land. How many square feet of land does he have?

87 acres x 43,560 sf = **3,789,720 sf**



Principles 2

Math Rationale

5

Lone Star Credit Union is charging 2 discount points and 1 origination point. What amount will the buyer be charged at closing on a \$195,000 loan?

\$5,850				
2 + 1 = 3%	\$195,000			

6

Broker Oscar listed a house for \$295,000. He negotiated 5% total compensation and has agreed to give 55% to the selling (buyer's) broker. Broker Ginger sold the house for \$291,000. How much did Broker Ginger make?

\$14,550		\$8,002.50		
5%	\$291,000	55%	\$14,550	

7

The Franklin's property has an assessed value of \$297,000. If the tax rate is \$2.35 per hundred, how much are their annual taxes?

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Convert $2.35 to a decimal
.0235 x $297,000 = $6,979.50
-OR-
$297,000 / 100 = 2,970
2,970 x $2.35 = $6,979.50
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Janie bought a 4.5 acre tract of land. How many square feet of land does she have?

 $4.5 \text{ acres } \times 43,560 \text{ sf} = 196,020 \text{ sf}$



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Math Rationale

9

Broker Leo listed a property with total compensation of 5%. When the property sold, Leo's half of the commission was \$13,250. What was the sales price of the property?

10

Cyrus bought an investment property has an annual Gross Scheduled Income of \$325,000 with operating expenses of \$175,000 per year. What is the Net Income?

11

Fred, a salesperson, earns 55% of his broker's share of a commission. He sold a home for \$295,000 and the listing broker shared half of his 6% commission with the selling (buyer's) broker. How much did Fred make?

\$17,700 / 2 = \$8,850		\$4,867.50	
6%	\$295,000	55%	\$8,850

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The Net Income of Julio's investment property is \$84,000. He has the property listed for \$759,000. What is the Capitalization Rate of the property?