**Seed Question**: Josh decides to try flipping a house. He buys a house for \$80,000 and then puts in \$50,000 in repairs. This increased the value of the house by 150%. How much profit did he make?

Seed Solution: The cost of the house and repairs came out to 80,000+50,000=130,000. He increased the value of the house by 80,000\*1.5=120,000. So the new value of the house is 120,000+80,000=200,000. So he made a profit of 200,000-130,000=70,000 #### 70000 Question: Josh decides to try flipping a house. He buys a house for \$100,000 and then puts in \$60,000 Numerical in repairs. This increased the value of the house by 200%. How much profit did he make? **Substitution Solution**: The value of the house after the repairs is 2 \* \$100,000 = \$200,000. So, the new value of the house is 100,000 + 200,000 = 300,000. Josh's total investment in the house is 100,000 + 60,000 =\$160,000. Therefore, his profit is \$300,000 - \$160,000 = #### 140,000. Question: Josh decides to try flipping a house. He buys a house for \$800,000 and then puts in \$500,000 Digit in repairs. This increased the value of the house by 150%. How much profit did he make? **Expansion** Solution: The cost of the house and repairs came out to 800,000+500,000=1300,000. He increased the value of the house by 800,000\*1.5=1200,000. So the new value of the house is 1200,000+800,000=2000,000. So he made a profit of 2000,000-1300,000=700,000 #### 700,000 Question: Josh decides to try flipping a house. He buys a house for \$80,000.00 and then puts in Integer-\$50,000.00 in repairs. This increased the value of the house by 1.5 times. How much profit did he make? decimalfraction Solution: The cost of the house and repairs came out to 80,000+50,000=130,000. He increased the **Conversation** value of the house by 80,000\*1.5=120,000. So the new value of the house is 120,000+80,000=200,000. So he made a profit of 200,000-130,000=70,000 #### 70000 Question: Josh decides to try flipping a house. He buys a house for \$80,000 and then puts in \$50,000 in Adding repairs. This increased the value of the house by 150%. After selling the house, he decides to invest his **Operation** profit in a business venture that promises a 20% return on investment after one year. How much will Josh have at the end of the year from his house flipping profit and the business venture? Solution: The cost of the house and repairs came out to 80,000+50,000=130,000. He increased the value of the house by 80,000\*1.5=120,000. So the new value of the house is 120,000+80,000=200,000. So he made a profit of 200,000-130,000=70,000. The business venture promises a 20% return on investment after one year:  $70,000 \times 0.2 = 14,000$ . The total amount he will have at the end of the year: 70,000 + 0.2 = 14,000. \$14,000 = #### **84,000**. Question: Josh decided to try flipping the house. He bought a house for \$80,000 and then spent \$50,000 Reversing on repairs, which increased the value of the house. If he made \$70,000 after the house appreciated, what **Operation** was the percentage appreciation of the house? Solution: The cost of the house and repairs came out to 80,000+50,000=130,000. If he made \$70,000 after the house appreciated, the value will be 70000+130000 = 200000. Therefore, the value of the house increased by (200000-80000)/80000 = 150%. #### 150 **Question**: Josh embarks on a house flipping venture. He purchases a property for \$80,000 and invests **Problem** an additional \$50,000 for renovations. This action boosts the house's worth by 150%. What is the **Understanding** amount of profit he earned from this venture? Solution: The cost of the house and repairs came out to 80,000+50,000=130,000. He increased the value of the house by 80,000\*1.5=120,000. So the new value of the house is 120,000+80,000=200,000. So he made a profit of 200,000-130,000=70,000 #### 70,000 Question: Josh decides to try flipping a house. He buys a house for \$80,000 and then puts in \$50,000 in **Distractor** repairs. During the repair process, he also wants to install a \$10,000 solar panel system, which doesn't Insertion affect the house's value so he gives up. After all the repairs and installations, the value of the house increased by 150%. How much profit did he make, ignoring the cost of the solar panel system? Solution: The cost of the house and repairs came out to 80,000+50,000=130,000. He increased the value of the house by 80,000\*1.5=120,000. So the new value of the house is 120,000+80,000=200,000. So he made a profit of 200,000-130,000=70,000 #### 70,000 **Question**: Josh decides to try flipping a house. He buys a house and then puts in \$50,000 in repairs. **Critical** This increased the value of the house by 150%. How much profit did he make? Thinking

Solution: We don't know the initial value of the house. #### None