

1. Mel Ting sells $\frac{1}{2}$ - gallon containers of frozen yogurt for \$4 each and 1 - gallon containers for \$7 each.

a) **Define** variables for the number of $\frac{1}{2}$ - gallon containers and for the number of 1 - gallon containers sold.

Variable: _____

Variable: _____

b) One day Mel sells a total of 50 containers of yogurt, for a total of \$287. Write a system of equations expressing these facts.

Equation: _____

Equation: _____

2. A scuba diving resort hotel offers divers two plans. Plan *A* gives 3 nights' lodging and 4 dives. Plan *B* gives 5 nights' lodging and 8 dives.

a) **Define** variables for the number of dollars they charge per night and for the number of dollars charged per dive.

Variable: _____

Variable: _____

b) A price list comes out in which Plan *A* costs \$440 and Plan *B* costs \$780. Write a system of equations expressing these facts.

Equation: _____

Equation: _____

3. During one week of playing basketball, Manu Ginobili hit 30 shots from the floor and scored 68 points. Each shot was a 2-point shot or a 3-point shot. Write a system of equations which could be used to find the number of each type of "shot" Manu made.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

4. A rectangle is 7 inches longer than it is wide. If the perimeter is 72 inches, how long is the rectangle? Write a system which could be used to find the length of the rectangle.

Variable: _____ Equation: _____

Variable: _____ Equation: _____

5. Mark has \$4.95 in quarters and dimes. He has 3 times as many dimes as quarters. Write a system of equations that could be used to find q , the number of quarters, and d , the number of dimes, Mark has.

Variable: _____ Equation: _____

Variable: _____ Equation: _____