**Directions :**

Guiding Questions:

1. What is the question asking?
2. What do you know
3. What is your plan?
4. Does the answer make sense and did you answer the question?

**Use your guiding questions to answer the questions.**

**Underline the question. Place all information necessary in the work box from the question. Create a plan and show your work to solving the problem. Go back and make sure you answered the question and it makes sense.**

**Solve the problems in the space provided on the right side of the paper. In the little box on the upper corner, mark a +, -, or ? based on your understanding of the question.**

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| After answering the question classifying the numerical answer as real, rational, irrational, integer, whole, and or natural  Nathan and Kyle went to lunch at a cafe. They ordered a spinach salad for $7.20, a tuna sandwich for $4.10, and 2 glasses of lemonade for $1.80 each. The tax was $1.50. They gave the waiter $20.00. How much change should they have received? |  |
| Name a number that is a whole number but not a natural number. |  |
| Name a number that is a rational number but not a whole number.  |  |
|  Place these numbers in the Venn diagram. (Some may not be used)4, -12, $\frac{2}{7}$, 22, -33, 0,  |  |

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| In the Sahara Desert one day the temperature was $136℉$. In the Gobi Desert a temperature of $-56℉$ was recorded. What was the difference between these two temperatures? |  |
| Metal mercury at room temperature is a liquid. Its melting point is $-39℃$. The freezing point of alcohol is $-114℃$. How much warmer is the melting point of mercury than the freezing point of alcohol?  |  |
| Lou bought $12^{1}/\_{2}$ pounds of candy to share with his friends. If he gave $2^{1}/\_{2}$pounds to each of his friends, how many friends did he share his candy with? |  |
|  The perimeter of a rectangular living room is 40 meters. The area is 100 square meters. What are the dimensions of the living room? |  |
| A rectangular garage has an area of 45 square meters. Its perimeter is 28 meters. What are the dimensions of the garage? |  |
| Umbrellas rent for $3 a day. The Jacksons will be at the shore for 2 weeks. Should they buy an umbrella for $34.95 or rent one every day? Justify your answer. |  |