**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, , 22, -33, 0, |  |

|  |  |
| --- | --- |
| In the Sahara Desert one day the temperature was . In the Gobi Desert a temperature of was recorded. What was the difference between these two temperatures? |  |
| Metal mercury at room temperature is a liquid. Its melting point is . The freezing point of alcohol is . How much warmer is the melting point of mercury than the freezing point of alcohol? |  |
| Lou bought pounds of candy to share with his friends. If he gave 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. |  |