Station 4 Instructions

1. If you have just finished Station 3, please use the envelope to check your answers before beginning Station 4.
2. Put the worksheet “Algebra Symbols Definition List” on the table where all members of your group can see it.
3. Handout the note sheet “Station 4 Notes Table” to each group member.
4. As a team, match the definition to its symbol on the Notes Table. Fill in the definition in the corresponding box. For example, the symbol + means to add or means a value is positive.
5. Once you have placed all definitions beside their symbols, work together to complete the practice problems for Station 4. Refer to your notes table as needed. If your team disagrees about an answer, please feel free to ask me for help.

Algebra Symbols Definition List

Station 4

(Please do not write on or remove from folder.)

is equal to

divided by

multiply

degrees

is less than

pi

percent

triangle

is greater than

square root of a

add or positive

angle

is similar to

opposite of a

minus or negative

greater than or equal to

approximately equal to

absolute value of a

is not equal to

less than or equal to

positive or negative

ordered pair a,b

Station 4 Notes Table

|  |  |  |  |
| --- | --- | --- | --- |
| Symbol | Definition | Symbol | Definition |
|  |  |  |  |
|  |  |  |  |
| < |  | -a |  |
| > |  |  |  |
| + |  |  |  |
| - |  | % |  |
|  |  |  |  |
|  |  |  |  |
|  |  | (a,b) |  |
| = |  |  |  |
|  |  | ~ |  |

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_**

**Station 4 Practice Problems**

Translate the verbal sentence into an equation or inequality.

1. The sum of 42 and a number, n, is equal to 52.
2. The difference of a number, z, and 11 is equal to 35.
3. The product of 4 and a number, w, is at most 51.
4. The sum of a number n and 4 is more than 13.
5. Which equation corresponds to the sentence, “The product of a number b and 3 is less than 12”?
   1. 3b < 12 b. 3b > 12
6. 3b  12 d. 3b  12

Justify the following.

6. Is 5 a solution of 2x + 7 = 14? 7. Is 5 a solution of 2x + 7 > 14?

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_**

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**Station 4 Practice Problems: Answer KEY**

Translate the verbal sentence into an equation or inequality.

1. The sum of 42 and a number, n, is equal to 52.

**42 + n = 52**

1. The difference of a number, z, and 11 is equal to 35.

**z – 11 = 35**

1. The product of 4 and a number, w, is at most 51.

**4w51**

1. The sum of a number n and 4 is more than 13.

**n + 4 > 13**

1. Which equation corresponds to the sentence, “The product of a number b and 3 is less than 12”?
   1. 3b > 12 **b. 3b < 12**
2. 3b  12 d. 3b  12

Justify the following.

6. Is 5 a solution of 2x + 7 = 14? 7. Is 5 a solution of 2x + 7 > 14?

**2(5) + 7 2(5) + 7**

**10 + 7 10 + 7**

**17, does not equal 14 17 > 14 is a true statement**

**5 is not a solution 5 is a solution**