**Bedroom Blueprint**

Accelerated 7th Grade Math

You will apply ratios and proportions to help you make a scale drawing of your bedroom.

*You want to rearrange your bedroom but your parents say no. You decide to convince them by making a scale drawing (blueprint) to show how your room will look after you have reorganized it. Use proportions to draw a scale drawing of your room and at least 3 items that you currently have in your bedroom.*

For this project you will need to:

1. Measure the size of your bedroom (length and width)
2. Measure at least 3 items currently in your bedroom (length and width)
3. Decide on an appropriate scale to draw your blueprint (your drawing must fit on one sheet of paper)
4. Make a blueprint of your bedroom, including the 3 items, to scale. Your drawing must include:

* A scale
* **Actual dimensions** for every wall and object in your room
* 3 proportions that determine a dimension on your blueprint.

Keep your work neat and organized. Look at my sample blueprint on the back of this worksheet as an example or some real blueprints online to see how neat and organized they look.

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| **Criteria** | **Comments** | **Score** |
| **Scale is given and reasonable.** |  | /2 |
| **Length and width of bedroom…**   * given and reasonable * drawn to accurately to scale |  | /2  /2 |
| **Item #1**   * length and width are given and reasonable * drawn to accurately to scale |  | /2  /2 |
| **Item #2**   * length and width are given and reasonable * drawn to accurately to scale |  | /2  /2 |
| **Item #3**   * length and width are given and reasonable * drawn to accurately to scale |  | /2  /2 |
| **3 proportions are shown and accurate**   * proportion #1 * proportion #2 * proportion #3 |  | /2  /2  /2 |
| **Blueprint is neat and professional.** |  | /2 |
| **TOTAL** |  | **/26** |