
Ne'epapa Ka Hana Mathematics Resources
Professional Development Course
Video 3 Example Activities

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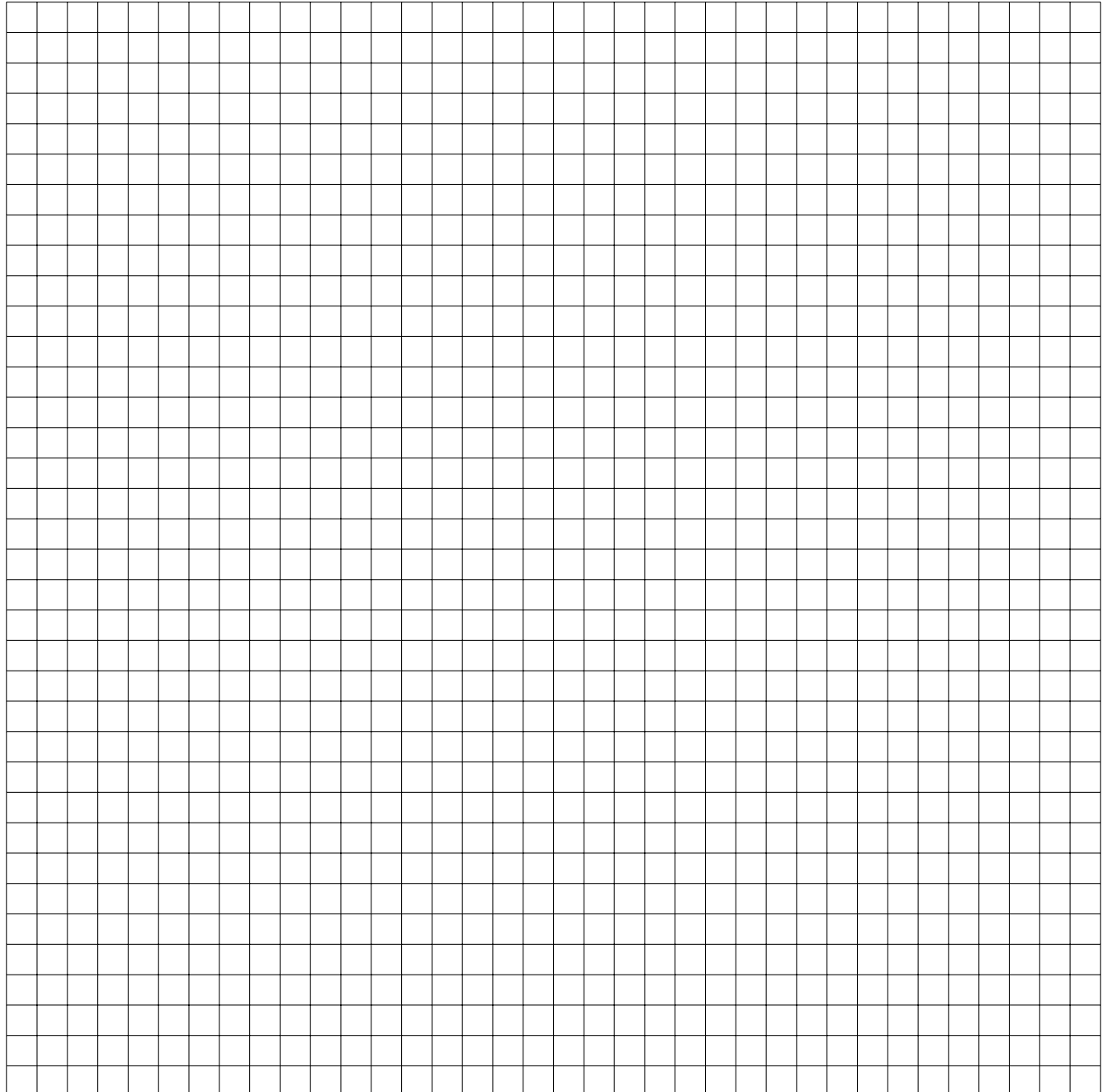
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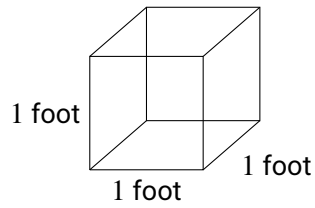
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Let's work with a group to learn about our classroom space. Your group will need a yard stick for this activity.

1. First, let's sketch a few models of our classroom. You can make **2D or 3D sketches with measurements**. You can make anything from fancy artistic drawings to simple blueprints. Please focus on the building itself and ignore things that can be moved, such as the desks and books. Make sure that you have enough details to describe the shape and size of your classroom to a stranger.



2. With your group, determine how many $1 \text{ foot} \times 1 \text{ foot} \times 1 \text{ foot}$ cubes can fit inside of your classroom. Show and explain your work.



3. How many $1 \text{ foot} \times 1 \text{ foot} \times 1 \text{ foot}$ cubes can fit in the room if it is **twice as long as the original** classroom? Show and explain your work.
4. How many $1 \text{ foot} \times 1 \text{ foot} \times 1 \text{ foot}$ cubes can fit in the room if it is **half as long as the original** classroom? Show and explain your work.
5. How many $1 \text{ foot} \times 1 \text{ foot} \times 1 \text{ foot}$ cubes can fit in the room if it is **twice as long and twice as tall as the original** classroom? Show and explain your work.