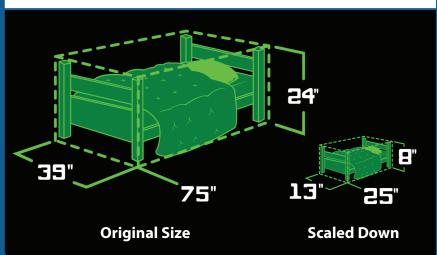


Scale Ella Learner Guide

Watch the video, *Scale Ella*, and complete these activities. The video and an instructor guide are available on iTunes U (search "Math Snacks") and at **mathsnacks.org**

The regular size of a twin bed is 39" wide, 75" long and 24" high. Scaleo has scaled your bed to this size: 13"wide, 25" long and 8" high.



| 1. What can Scale Ella do so that you can sleep comfortably tonight? |
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| 2. Scaleo has now scaled you to be bigger by a scal | le |
|---|----|
| factor of 7. What is your new height? | |



Your Height x Scale Factor = Your New Height



| R | If you can't, what can Scale Ella do to help |
|----|--|
| ъ. | n you can t, what can scale tha do to help |
| | vou? |

A. Will you fit on a regular-sized bed?

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| | | |

3. You have been given Scale Ella's powers, but before you scale items you have to practice by scaling numbers. Pick a scale factor that will increase the numbers and a scale factor that will decrease the numbers. Once you pick your numbers, complete the table.

Scale Up By Scale Down By Numbers

.05

1/2

7

13

25

102

| 4. If you could scale up three things in your life by a factor of 5, | | | | | | |
|--|---|--|--|--|--|--|
| A. What would you scale up? | Why? | | | | | |
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| 5. If you could scale down three thir | 5. If you could scale down three things in your life by a factor of $\frac{1}{5}$, | | | | | |
| B. What would you scale down? Why? | | | | | | |
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