



Virtual Learning

# The Architect's Scale

April 13, 2020



Civil Engineering and Architecture  
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Lesson: April 13, 2020

**Objective/Learning Target:**

Students will learn to accurately read an architect's scale



# Bell Ringer:

How large projects such as houses, hospitals, and bridges able to accurately get depicted on sheets of paper that you can hold in your hands?



# Let's get started:

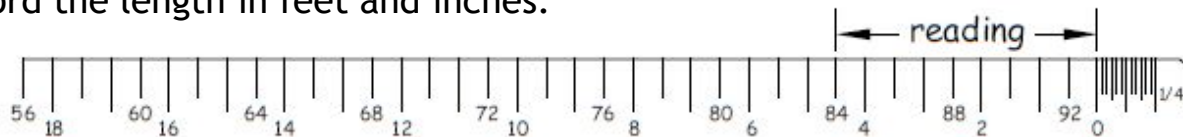
An architect's scale is a tool that allows designers to create large scale projects such as buildings and bridges at a reduced size. A typical scale is triangular in shape and contain as many as 12 different scales on it.

Watch this video on how to read the architect's scale from Bob:

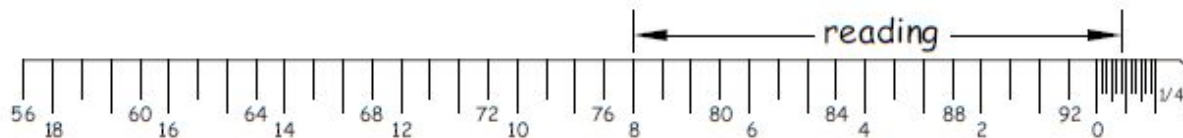
<https://www.youtube.com/watch?v=PrbjWgyZIFc>

# Practice:

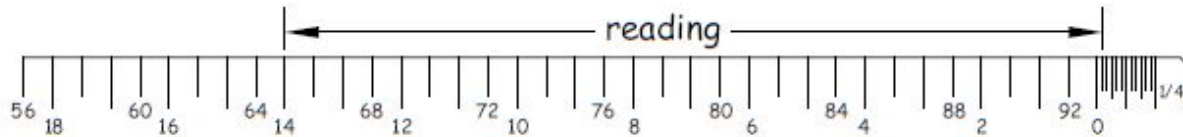
Record the length in feet and inches:



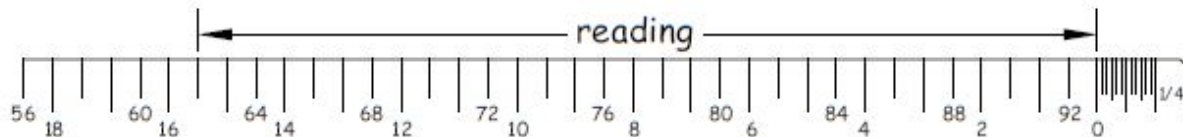
1. \_\_\_\_\_



2. \_\_\_\_\_



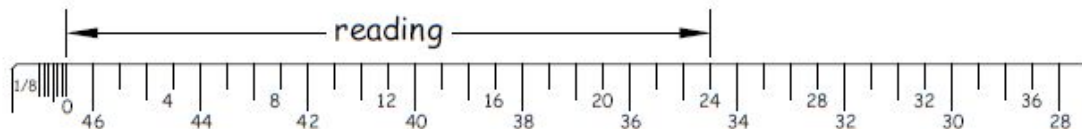
3. \_\_\_\_\_



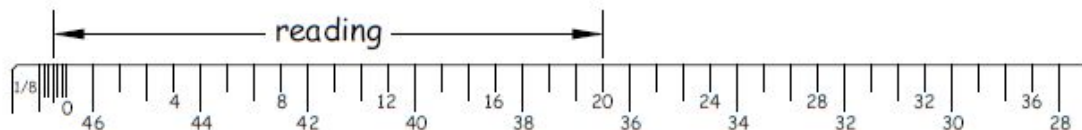
4. \_\_\_\_\_

# Practice:

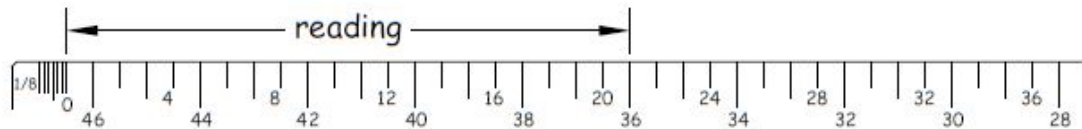
Record the length in feet and inches:



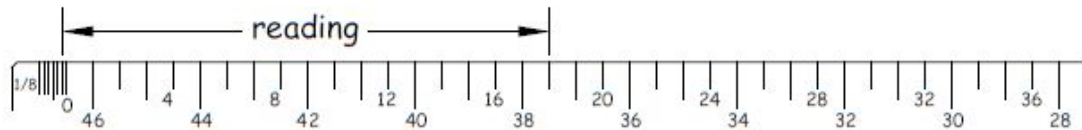
5. \_\_\_\_\_



6. \_\_\_\_\_



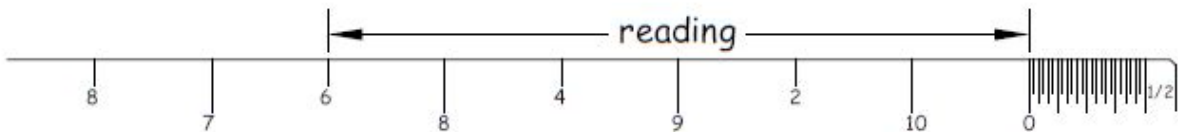
7. \_\_\_\_\_



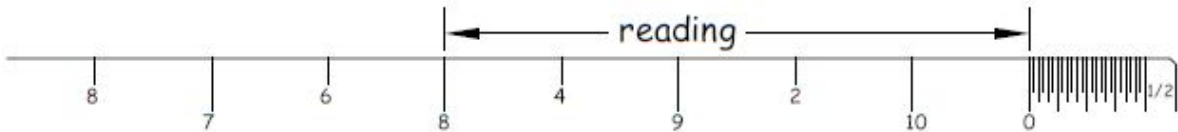
8. \_\_\_\_\_

# Practice:

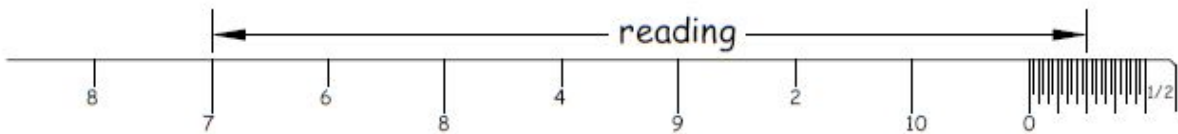
Record the length in feet and inches:



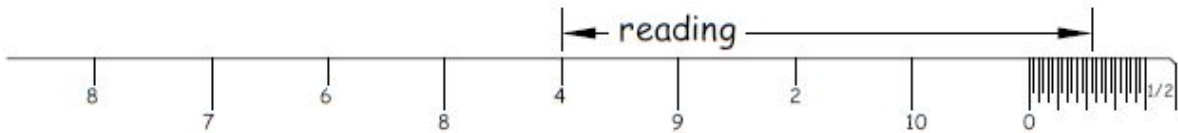
9. \_\_\_\_\_



10. \_\_\_\_\_



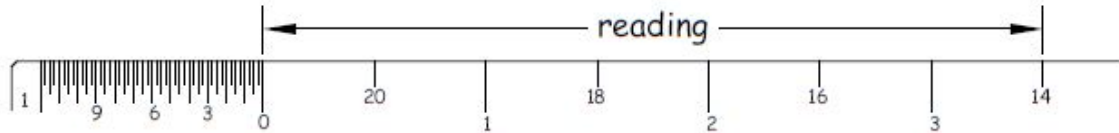
11. \_\_\_\_\_



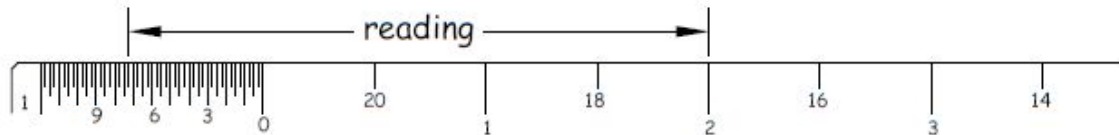
12. \_\_\_\_\_

# Practice:

Record the length in feet and inches:



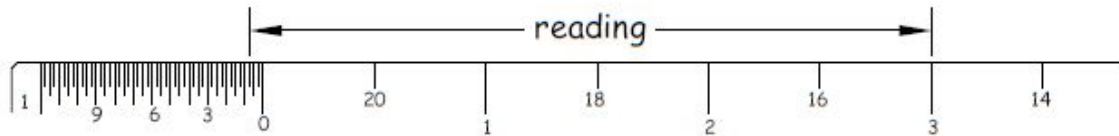
13. \_\_\_\_\_



14. \_\_\_\_\_



15. \_\_\_\_\_



16. \_\_\_\_\_



# Check your work:

## Answers for measurements 1-16:

- |             |                |
|-------------|----------------|
| 1. 4' - 6"  | 9. 6' - 0"     |
| 2. 8' - 5"  | 10. 5' - 0"    |
| 3. 14' - 1" | 11. 7' - 6"    |
| 4. 15' - 6" | 12. 4' - 6 ½"  |
| 5. 24' - 0" | 13. 3' - 6"    |
| 6. 20' - 6" | 14. 2' - 7 ¼"  |
| 7. 20' - 6" | 15. 1' - 11 ½" |
| 8. 18' - 2" | 16. 3' - 0 ¾"  |

## Common Mistakes:

- ❑ Make sure you are reading from the correct end. Depending on the scale you are using you could either read from right to left or left to right.
- ❑ Make sure you are using the correct numbers on the scale.
- ❑ The larger the scale the more precise your measurements need to be (i.e. ⅛" scale measures to the nearest 2" and 1" scale measures to the nearest ¼").



# Additional Resources:

How to read the architect's scale:

<https://akloc.files.wordpress.com/2013/09/architectural-scale.pdf>

[https://www.youtube.com/watch?v=aytX\\_QAMzbnk](https://www.youtube.com/watch?v=aytX_QAMzbnk)

<https://www.youtube.com/watch?v=fQY7fUmtjPw>