

# Meaningful Measurements

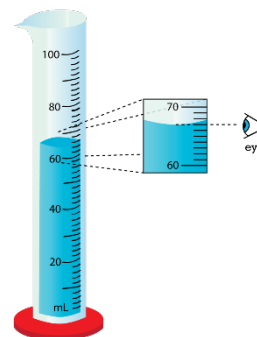
|                                     |                                     |
|-------------------------------------|-------------------------------------|
| How close a measured value is to... | How close a measured value is to... |
|-------------------------------------|-------------------------------------|

|           |           |           |           |
|-----------|-----------|-----------|-----------|
| Precise?  | Precise?  | Precise?  | Precise?  |
| Accurate? | Accurate? | Accurate? | Accurate? |

In order to be meaningful, measurements must have both...

## When taking measurements in the lab...

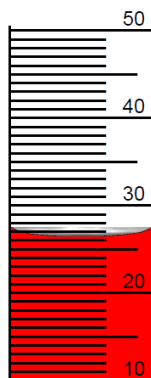
- ✓ DO read glassware so that you are at \_\_\_\_\_
- ✓ DO measure to the \_\_\_\_\_ of the \_\_\_\_\_
- ✓ DO \_\_\_\_\_ one more digit \_\_\_\_\_
- ✗ DO NOT assume that the scale will always be marked by \_\_\_\_\_



What is the reading (in milliliters or °C) for the glassware pictured below?



\_\_\_\_\_



\_\_\_\_\_



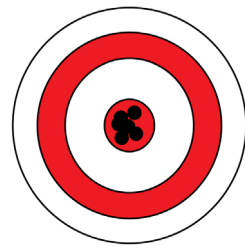
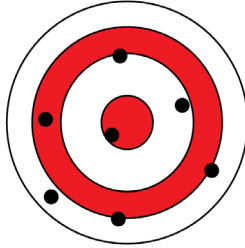
\_\_\_\_\_



\_\_\_\_\_

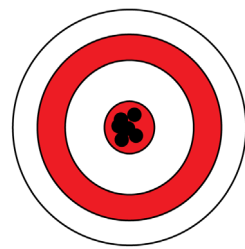
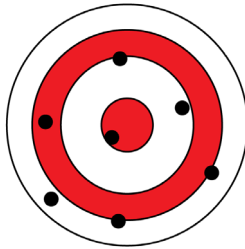
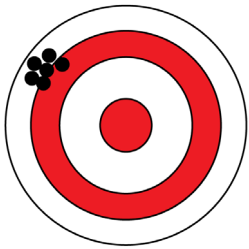
**Accuracy**

**Precision**



**Accuracy**

**Precision**



**Accuracy**

**Precision**

