

## CONCEPT: REVIEW OF VECTORS AND SCALARS

- **Remember:** When you take measurements, you always get the **size** (Magnitude, how much).
  - Measurements with direction → [ **Vectors** | **Scalars** ]; without direction → [ **Vectors** | **Scalars** ]

| Measurement                | Quantity     | Magnitude? | Direction? | Vector/Scalar                     |
|----------------------------|--------------|------------|------------|-----------------------------------|
| "It's 60°F outside"        | Temperature  |            |            | [ <b>Vector</b>   <b>Scalar</b> ] |
| "I pushed with 100N north" | Force        |            |            | [ <b>Vector</b>   <b>Scalar</b> ] |
| "I walked for 10 m"        | Distance     |            |            | [ <b>Vector</b>   <b>Scalar</b> ] |
| "I walked 10 m east"       | Displacement |            |            | [ <b>Vector</b>   <b>Scalar</b> ] |
| "I drove at 80 mph"        | Speed        |            |            | [ <b>Vector</b>   <b>Scalar</b> ] |
| "I drove 80mph west"       | Velocity     |            |            | [ <b>Vector</b>   <b>Scalar</b> ] |