

Guided Notes: 1-D Kinematics

Scalars vs. Vectors

One-Dimension:

Kinematics:

Scalar:

Vector:

Conceptual Example #1: Scalar & Vectors

Which of the following are scalars and which are vectors?

- | | |
|---------------------------|-------|
| (A) 5 meters | _____ |
| (B) 30 meters/second East | _____ |
| (C) 20 degrees Celsius | _____ |
| (D) 4000 calories | _____ |
| (E) -10 centimeters | _____ |

Scalars & Vectors Notes:

Conceptual Example #2: Scalar & Vector

Which of the following are examples of positive directions?

- A. Up
- B. Left
- C. Right
- D. Down
- E. North
- F. East
- G. West

Conceptual Example #3: Scalar & Vector

Which of the following are examples of negative directions?

- A. Up
- B. Left
- C. South
- D. Right
- E. Down
- F. North
- G. East
- H. West

Conceptual Example #4: Scalar & Vector

Laura is pushing the box with a force of 40 Newtons. Melissa is pushing on the box with a force of -20 Newtons. From looking at the picture below, which figure is Laura and which figure is Melissa?

