

Worksheet: Vector vs Scalar Quantities (Grade 8)

Name: _____ Date: _____

Q1: Complete the definitions

a) A scalar quantity has _____ only.

b) A vector quantity has _____ and _____.

Q2: Tick (✓) Scalar or Vector

Distance ☐ Scalar ☐ Vector

Force ☐ Scalar ☐ Vector

Time ☐ Scalar ☐ Vector

Velocity ☐ Scalar ☐ Vector

Energy ☐ Scalar ☐ Vector

Q3: Choose the correct answer

1) Which quantity has magnitude and direction?

a) Speed b) Time c) Force

2) Which is a scalar quantity?

a) Displacement b) Velocity c) Temperature

Q4: Short Answer

Why is force a vector quantity? _____