

Momentum

$$p = mv$$

A boulder with a mass of 146 kg is rolling down a street with a velocity of 17 m/s South. What is the momentum of the boulder?

A 21 kg box is on a 5.9 kg wagon. The wagon is moving with a velocity of 4.5 m/s NW.

a. What is the total p of the system?

a. What is the p of the box?

a. What is the p of the wagon?

An object has a momentum of 56000 kg*m/s East and a mass of 1210 kg. What is the velocity of the object?