Momentum Worksheet

True or False?
1.) Momentum is not equal to the mass of an object divided by its velocity.
2.) The momentum of an object can change.
3.) Two objects with the same mass will always have the same momentum.
4.) All moving objects don't have momentum.
5.) When an object speeds up, it gains momentum.
6.) Objects with different masses can't have the same momentum.
7.) Direction does not matter when you are measuring momentum.
8.) Momentum can be transferred from one object to another.
9.) When objects collide, some momentum is lost.
10.) A tiny bullet can have more momentum than a huge truck.
Fill in the blank.
11.) A moving car has momentum. If it moves twice as fast, its momentum is as much.
12.) Two cars, one twice as heavy as the other, move down a hill at the same speed. Compared to the lighter

Given the following data, solve for momentum, P = mv

car, the momentum of the heavier car is ______ as much.

Given the following d Object	Mass (kg)	Velocity (m/s)	Momentum (kg-m/s)
13.) Bird	.04	19	.76
14.) Football player	100	10	
15.) Skier	60	20	
16.) Bullet	.004	600	
17.) Frog	.9	12	
18.) Meteorite	.1	1,000	
19.) Baseball	.14	30	
20.) Wagon	2	3	
21.) Satellite	3,000	8,000	

Gives you	If you know
Momentum	Mass and Speed
Mass	Momentum and Speed
Speed	Momentum and Mass
	Momentum Mass

22.) A steel ball whose mass is 2.0 kg is rolling at a rate of 2.8 m/s. What is its momentum?

Looking for	Solution
Given	
Relationships	
Kelationships	

23.) A marble is rolling at a velocity of 1.5 m/s with a momentum of 0.10 kg·m/s. What is its mass?

Looking for	Solution
Given	
Relationships	