Momentum	Work	ksheet
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Name		

## 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.

Given the following data, solve for momentum.

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

- 1. List the objects from least momentum to greatest.
- 2. Does the order of these objects surprise you? Why or why not?
- 3. Do you think that these objects would always be placed in the same order according to momentum? Why or why not?