Newton's 3rd Law of Motion:

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When a small lab cart hits a wall, the forces acting on the cart and wall are _____, but the _____ of the cart and wall are different. Because the _____ of the wall is much greater, the wall's acceleration will be much _____.

Action-Reaction forces do _____ cancel out.
Action-Reaction forces involve _____ objects and _____ forces.

action –
reaction –

The car's tires push back on the road and the road pushes the car _____.
A swimmer pushes water backwards and the water _____.

Action (A acts on B)	**Reaction (B acts on A)**
Kangaroo pushes down on ground.	
Ball hits head.	
Windshield hits bug with force of 10 N.	
Dentist pulls up on tooth.	
Helicopter blades push air down.	

Challenge – Why is this not an action-reaction pair?

Name the 2 action-reaction pairs.

horse and cart problem (on back)