

4. What is the acceleration of a 7 kg mass if a force of 68.6 N is used to move it toward Earth?

5. What is the acceleration of a 0.3 kg ball hit with a force of 20 N?

6. What is the mass of an object if a force of 34 N produces an acceleration of 4 m/s/s?

7. What force is needed to accelerate a 1,000 kg car at a rate of 35 m/s/s?

8. What force is required to accelerate a 5 kg object to 6 m/s/s?

9. What is the mass of an object if a force of 17 N causes it to accelerate at 1.5 m/s/s?

10. What is the acceleration of a 10 kg object if a force of 3 N is applied to it?

11. What is the mass of an object that requires a force of 25 N to accelerate at 5 m/s/s?

12. How much force is required to accelerate an 1,800 kg truck at 3 m/s/s?