F=MA WORKSHEET

- 1. How much force is required to accelerate a 2 kg mass at 3 m/s²?
- 2. Given a force of 100 N and an acceleration of 10 m/s², what is the mass?
- 3. What is the acceleration of a 10 kg mass pushed by a 5 N force?
- 4. Given a force of 88 N and an acceleration of 4 m/s², what is the mass?
- 5. How much force is required to accelerate a 12 kg mass at 5 m/s²?
- 6. Given a force of 10 N and an acceleration of 5 m/s², what is the mass?
- 7. How much force is required to accelerate a 5 kg mass at 20 m/s²?
- 8. What is the acceleration of a 5 kg mass pushed by a 10 N force?
- 9. Given a force of 56 N and an acceleration of 7 m/s², what is the mass?
- 10. How much force is required to accelerate an 8 kg mass at 5 m/s²?
- 11. What is the acceleration of a 24 kg mass pushed by a 6 N force?
- 12. What is the acceleration of a 25 kg mass pushed by a 10 N force?
- 13. Given a force of 100 N and an acceleration of 5 m/s², what is the mass?
- 14. How much force is required to accelerate a 50 kg mass at 2 m/s²?
- 15. What is the acceleration of an 18 kg mass pushed by a 9 N force?
- 16. Find the acceleration of the 2 kg block in the following diagram.



17. Find the acceleration of the 1 kg block in the following diagram

