NAME:_____ **F=M×A Practice** Period:_____

1. How much force is required to accelerate a 2kg mass at 3 m/s^2?

Force:_____ Mass:_____Acceleration:_____

Set Up:

Solution:

2. Given a force of 100 N and an acceleration of 10 m/s^2, what is the mass?

Force:_____ Mass:_____Acceleration:_____

Set Up:

Solution:

3. What is the acceleration of a 10 kg mass pushed by a 5 N force?

Force:_____ Mass:_____Acceleration:_____

Set Up:

Solution:

4. Given a force of 88 N and an acceleration of 4 m/s^2, what is the mass?

Force:_____ Mass:_____Acceleration:_____

Set Up:

Solution:

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5. How much force is required to accelerate a 12 kg mass at 5 m/s^2?

6. Given a force of 10 N and an acceleration of 5 m/s^2, what is the mass?

7. How much force is required to accelerate a 5 kg mass at 20 m/s^2?

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/s^2, what is the mass?

10. How much force is required to accelerate an 8 kg mass at 5 m/s^2?

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/s^2, what is the mass?

14. How much force is required to accelerate a 50 kg mass at 2 m/s^2?

15. What is the acceleration of an 18 kg mass pushed by a 9 N force?