

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Pd: \_\_\_\_\_

## F=MA WORKSHEET

1. How much force is required to accelerate a 2 kg mass at  $3 \text{ m/s}^2$  ?
2. Given a force of 100 N and an acceleration of  $10 \text{ m/s}^2$  , 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  $4 \text{ m/s}^2$  , what is the mass?
5. How much force is required to accelerate a 12 kg mass at  $5 \text{ m/s}^2$  ?
6. Given a force of 10 N and an acceleration of  $5 \text{ m/s}^2$  , what is the mass?
7. How much force is required to accelerate a 5 kg mass at  $20 \text{ m/s}^2$  ?
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  $7 \text{ m/s}^2$  , what is the mass?
10. How much force is required to accelerate an 8 kg mass at  $5 \text{ m/s}^2$  ?
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?