

## **Newton's Second Law**

15 Questions

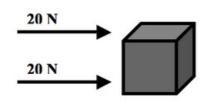
NAME:	
CLASS:	
DATE:	

1. 340 N 450 N

What happens when unbalanced forces act on an object at rest?

- $\square$  a) the object remains at rest
- ☐ c) the object begins moving in the direction of the net force
- ☐ b) the object begins moving in an unpredictable direction
- ☐ d) the object begins moving opposite to the direction of net force

2.



What is the net force?

- ☐ a) 40 N left
- ☐ c) 400 N right

- ☐ b) 0 N BalaInced
- ☐ d) 40 N right

- 3. 20 N is the
- ☐ a) mass
- ☐ c) force

- ☐ b) weight
- $\Box$  d) acceleration

- 4.  $45 \text{ m/s}^2 \text{ is the...}$
- ☐ a) Mass
- ☐ c) Acceleration

- ☐ b) Force
- ☐ d) weight
- 5. What is a Balanced Force? Two objects where...
- $\square$  a) They both have equal force
- $\square$  b) One has more force than the other

☐ c) Both have no force

 $\Box$  d) One has more gravity than the other

6. Football A has a greater mass than football B. Which football will have greater acceleration when both are thrown with the same force in the same direction?				
☐ a) Football A	☐ b) Football B			
$\ \square$ c) They will have the same acceleration	☐ d) Mass has no effect on acceleration			
T T	e more force to push an empty shopping cart or a cart that is full?			
$\square$ a) The empty shopping cart	$\square$ b) The full shopping cart			
$\ \square$ c) They will take the same amount of force				
8. How much force is needed to accelerate a 2 kg physics book to an acceleration of 6 m/s/s?				
☐ a) 36 N	☐ b) 12 N			
□ c) 3 N	☐ d) 0.33 N			
9. When force is 20 N, mass is 5 kg, what is ac	celeration?			
☐ a) 25 m/s/s	☐ b) 5 m/s/s			
☐ c) 100 m/s/s	☐ d) 4 m/s/s			
10. What is the acceleration of an object traveli velocity?	ng at a constant			
$\Box$ a) 10 m/s <sup>2</sup>	$\Box$ b) 0 m/s <sup>2</sup>			
$\Box$ c) 250 m/s <sup>2</sup>	$\square$ d) 20 m/s <sup>2</sup>			
11. Why would one ball accelerate more than the other when pushed with the same amount of force?				
☐ a) Different weights	☐ b) Different forces			
☐ c) Different masses	☐ d) Different sizes			

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12. Jenny applies a 60 N force to a 20	) Kg cart, what is the
acceleration of the cart if friction	can be neglected?
$\Box$ a) 1200 m/s <sup>2</sup>	$\Box$ b) 0.33 m/s <sup>2</sup>
$\Box$ c) 20 m/s <sup>2</sup>	$\Box$ d) 3 m/s <sup>2</sup>
13. An object accelerates 5 m/s <sup>2</sup> whe applied to it. What is the mass of	
☐ a) 4 Kg	□ b) 20 Kg
□ c) 0.5 Kg	☐ d) 2 Kg
14. An object with a mass of 6.0 kg a an unknown force is applied to it the force?	
☐ a) 240 N	□ b) 24 N
□ c) 2.4 N	☐ d) 0.24 N
15.	According to Newton's second Law, which would take more force to slow down?
☐ a) The silver car	☐ b) The green car
$\square$ c) They would both take the same	force

## **Answer Key**

1. C

2. d

3. С

4. C 5.

а 6. b

7.

8.

b

b

9. d

10. b

11. c

12. d

13. a

14. b

15. a