

11. A 35 N force pulls on an object at 25° North of East. A second force pulls North with 20 N. A third force pulls East with 3 N.  
 A. Find the net force on the object.



$$F_{y2} = 20\text{N}$$

$$F_{x2} = 0$$

$$F_{y3} = 0$$

$$F_{x3} = 3\text{N}$$

$$F_{y\text{net}} = 14.8 + 20 = 34.8\text{N}$$

$$F_{x\text{net}} = 31.7 + 3 = 34.7\text{N}$$

$$R = \sqrt{34.8^2 + 34.7^2} = 49.1\text{N}$$

at 45° N of E

- B. What force would be necessary to keep the object at equilibrium?

Same force, but 180° away.  $[-49.1 \text{ at } 45^\circ \text{ OR } 49.1\text{N at } 225^\circ]$

12. Will the object move? If yes, find acceleration. If not, find what additional force is necessary to move it.

First - resolve the angled force.  $F_f = \mu \cdot F_N$   
 You need force of friction, which needs  $F_N$ , so  $y$ -dir. first.

$$\Sigma F_y = ma_y$$

$$F_N + 30 - 120 = m(a)$$

$$F_N = 120 - 30 = 90\text{N}$$

$x$ -dir.

$$\Sigma F_x = ma_x$$

$$52 - 9 = ma_x$$

$$43 = 12a$$

$$a = 3.6\text{ m/s}^2$$



13. If  $M_1$  and  $M_2$  are equal and I push  $M_2$  down with  $v$  (initial velocity of 2 m/s, what will  $M_2$ 's velocity after 3 seconds?

$a = 0$   
 not going to speed up.  $v_i = 2\text{ m/s}$   $v_f = 2\text{ m/s}$

14. If  $M_2 = 3\text{ kg}$  and  $M_1 = 5\text{ kg}$ , find the tension in the rope.

Choose B to be +.

$$\Sigma F = ma$$

$$T - F_{w2} = m_2 a$$

$$T - 30 = 3a$$

$$T = 30 + 3a$$

$$\Sigma F = ma$$

$$F_{w1} - T = m_1 a$$

$$50 - T = 5a$$

$$50 - (30 + 3a) = 5a$$

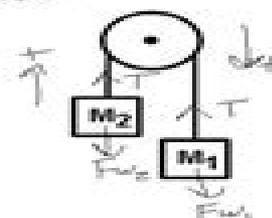
$$20 = 8a$$

$$a = 2.5$$

$$T - 30 = 3(2.5)$$

$$T - 30 = 7.5$$

$$T = 37.5\text{ N}$$



15. If I push on an object with 50 N of force with how much force does it push back on me? 50 N (= 2nd opp. forces)

16. If I push down on the earth with 300 N. How much does the earth push back on me? 300 N

17. A 70 N force pushes on three objects: 2 kg, 4 kg, and 6 kg.

- A. Which one will have the greatest acceleration? 2 kg (least mass)  
 B. Which one will push back with the greatest force? No difference - all will push back with 70 N.  
 C. Which one will have the least acceleration? 6 kg (most mass)

18. A box is in the back of a truck. If the truck accelerates quickly, what happens to the box?

It seems to go backwards in the truck, but it is really staying still in relation to the ground.

19. When a car crashes, what would happen to the occupant of the car if they were not wearing a seatbelt?

When the car stops (crashes) the person would continue forward due to inertia + hit the window.

20. Which of Newton's Laws applies?

- 3 A. How a rocket can fly in space. (= + opp.)  
 2 B. Braking hard wears out your brakes faster. (more F)  
 1 C. When a car turns objects in the car keep going straight. (inertia)

21. What do we call any force that keeps an object in a circle? centripetal force

22. A 40 N force pushes on a 3.5 m<sup>2</sup> surface. What is the pressure on the surface?

$$P_r = \frac{F}{A} = \frac{\text{N}}{\text{m}^2} = \frac{40}{3.5} = 11.4\text{ N/m}^2$$

# Cstephenmurray Answer Key Normal Force

**EW Minium**



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