

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.



$$\begin{aligned} F_{y2} &= 20 \text{ N} \\ F_{x2} &= 0 \\ F_{y3} &= 0 \\ F_{x3} &= 3 \text{ N} \end{aligned}$$

$$F_{y4} = 14.8 + 20 = 34.8 \text{ N}$$

$$F_{x4} = 31.7 + 3 = 34.7 \text{ N}$$

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

$$\approx 45^\circ \text{ N of E}$$

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

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

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.

You need force of friction, which needs F_N , so y-dir first.

$$\Sigma F_y = m a_y$$

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

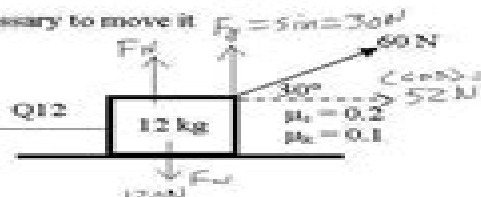
$$F_N = 120 - 30 = 90 \text{ N}$$

$$\begin{aligned} \Sigma F_x &= m a_x \\ 52 - 9 &= m a \end{aligned}$$

$$43 = 12 a$$

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

$$F_f = 9 \text{ N}$$



13. If M_1 and M_2 are equal and I push M_2 down with m (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 +.

$$\Sigma F = m a$$

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

$$T - 30 = 3 a$$

$$T = 30 + 3 a$$

$$\Sigma F = m a$$

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

$$50 - T = 5 a$$

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

$$50 - 30 - 3 a = 5 a$$

$$20 = 8 a$$

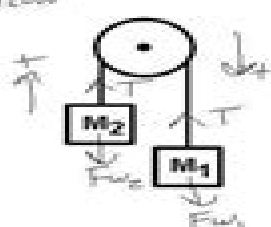
$$a = 2.5$$

$$T - 30 = 3 a$$

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

$$T - 30 = 7.5$$

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



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 m² surface. What is the pressure on the surface?

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

Answers Key Unit 2 Force And Motion

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Answers Key Unit 2 Force And Motion:

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 - Chapter 4: Answers Key Unit 2 Force And Motion in Specific Contexts
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