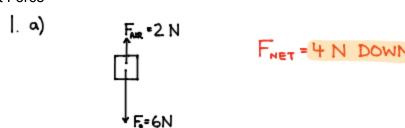
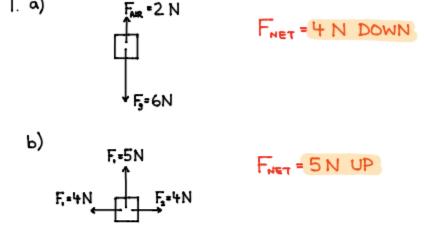
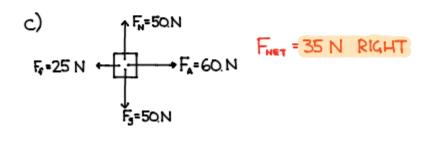
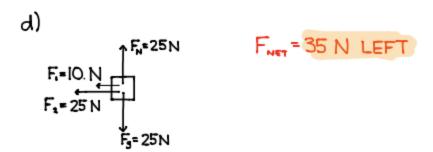
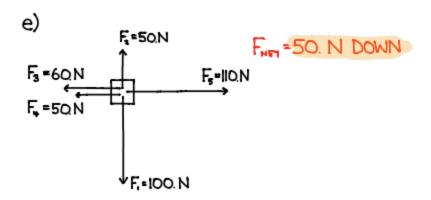
**Net Force** 



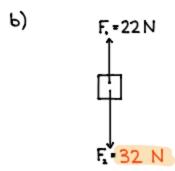


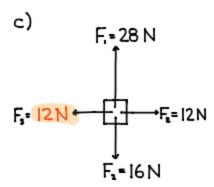




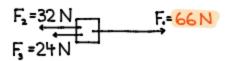


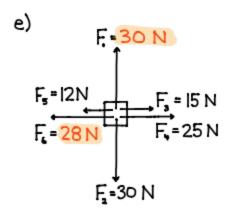
f) 
$$7N$$
 $4N$ 
 $5N$ 
 $6N$ 
 $5N$ 
 $6N$ 

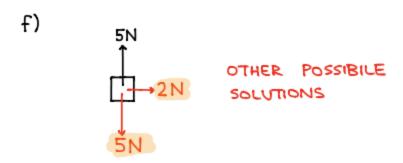




d)







Newton's Second Law

- **1.** 85 N Right
- 2. 6.5 m/s<sup>2</sup> Right
- **3.** 10 N Left
- 4. 7.8 m/s<sup>2</sup> downward
- **5.**a) 14 m/s<sup>2</sup>
- b) 12 m/s<sup>2</sup>
- **6.** 11.0 m/s<sup>2</sup> Up

- 7.
  a) 80.0 kg
  b) 780 N
  c) Ajay will
- c) Ajay will move at a constant velocity (1st law) after the push ends
- 8. 4.8 m/s<sup>2</sup> downward
- **9.** 1,200 N
- **10.** 0.53 m/s² Right
- **11.** 1,070 N Left

## Friction

- **1.** 2.3 m/s<sup>2</sup> Right
- **2.** 0.66
- **3.** 810 N
- 4.
- a) 15 N
- b) 11 N
- **5.** 5.1 kg
- 6.
- a) 5.6 m/s<sup>2</sup> right
- b) 1.8 m/s<sup>2</sup> right
- c) 3.9 m/s<sup>2</sup> right
- **7.** 2.8 s
- **8.** 0.076