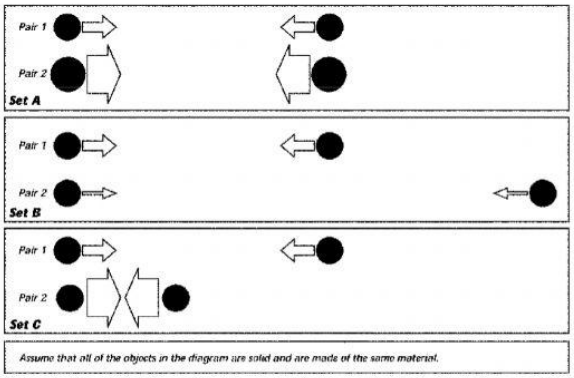
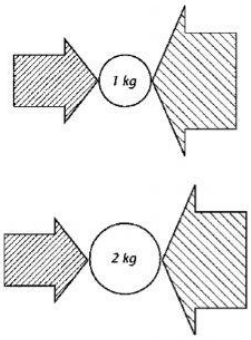


21. In Set A the gravitational forces between Pair 2 are greater then between Pair 1 because
    a. Pair 2 has less mass then Pair 1
    b. Pair 2 represents planets with an atmosphere
    c. Pair 1 represents planets with no atmosphere
    d. Pair 1 has less mass then Pair 2
22. In Set C, the difference in the magnitudes of the gravitational forces between the two pairs of objects is because
    a. Pair 2 has more mass then Pair 1
    b. Pair 1 and 2 have the same mass, but Pair 2 is closer, so they exert more gravity on each other.
    c. Pair 1 represents planets with no atmosphere.
    d. There is no difference between in the forces between Pair 1 and 2.
23. In Set B, the difference in the magnitudes of the gravitational forces between the two pairs of objects is because
    a. Pair 1 and 2 have the same mass, but Pair 1 is closer, so they exert more gravity on each other.
    b. Pair 2 has less mass then Pair 1
    c. There is no difference in the forces between Pair 1 and 2.
    d. Pair 1 represents planets with an atmosphere
24. In Set A, what would you have to do to the objects to make the gravitational forces between the objects in Pair 1 the same as the forces between the objects in Pair 2?
    a. Move the objects in Pair 2 father apart.
    b. There is no way to change the gradational forces.
    c. Move the objects in Pair 2 closer together.
    d. Move the objects in Pair 1 farther apart.

Forces on Two Objects



25. Compare the acceleration of the 1-kg object with that of the 2-kg object.
    a. the 1-kg object will have twice the acceleration of the 2-kg object.
    b. the acceleration of both objects will be the same.
    c. the 1-kg object will have less acceleration than the 2-kg object.
    d. neither object will accelerate.
26. In what direction is the net force acting on the 1-kg object?
    a. to the right.
    b. the forces are balanced.
    c. to the left.
    d. upward.
27. The width of each arrow indicates
    a. the size of the force.
    b. how sharply the forces push on the ball.
    c. the direction of the force.
    d. that the force is balanced.
28. One way to increase acceleration is by
    a. increasing mass.
    b. decreasing mass.
    c. decreasing force.
    d. increasing both force and mass proportionally.
29. The overall force on an object after all the forces are added together is called the _____ force.
30. _____ forces acting on an object produce a change in motion.