

CONCEPTUAL *Physics* PRACTICE PAGE  
 Chapter 2 Newton's First Law of Motion—Inertia  
 Static Equilibrium

1. Little Nellie Newton wishes to be a gymnast and hangs from a spray of positions as shown. Since she is not accelerating, the net force on her is zero. That is,  $\Sigma F = 0$ . The meter is the upward end of the rope; the downward end of gravity. The weights are shown. Show the scale readings for each case.

2. When Surf the pouter stands in the exact middle of his slings, the left scale reads 800 N. Fill in the reading on the right scale. The total weight of Surf and slings must be \_\_\_\_\_ N.

3. Surf stands farther from the left. Fill in the reading on the right scale. \_\_\_\_\_ N.

4. He is all right. Surf hangs from the right end. Fill in the reading on right scale. \_\_\_\_\_ N.

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 Chapter 2 Newton's First Law of Motion—Inertia  
 The Equilibrium Rule  $\Sigma F = 0$

1. Manuel weighs 1000 N and stands in the middle of a board that weighs 500 N. The ends of the board rest on bathroom scales. (The car measures the weight of the board, not its center.) Fill in the correct weight reading on each scale.

2. When Manuel moves to the left as shown, the scale closest to him reads 800 N. Fill in the weight for the far scale.

3. A 10-ton truck is one-quarter the way across a bridge that weighs 20 tons. A 10-ton force supports the right side of the bridge as shown. How much support force is on the left side?

4. A 1000-N crate resting on a surface is connected to a 500-N block through a frictionless pulley as shown. Friction between the crate and surface is enough to keep the system at rest. The arrows show the forces that act on the crate and the block. Fill in the magnitude of each force.

5. If the crate and block in the preceding question move at constant speed, the tension in the rope \_\_\_\_\_ (is the same / increases / decreases).  
 The sliding system is then in \_\_\_\_\_ (static equilibrium / dynamic equilibrium).

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 Vectors and Equilibrium

1. Nellie Newton dangles from a vertical rope in equilibrium. ( $\Sigma F = 0$ . The tension in the rope [upward vector] has the same magnitude as the downward pull of gravity [downward vector].)

2. Nellie is supported by two vertical ropes. Draw tension vectors in black along the direction of each rope.

3. This time the vertical ropes have different lengths. Draw tension vectors in black for each of the two ropes.

4. Nellie is supported by three vertical ropes that are equally

CONCEPTUAL *Physics* PRACTICE PAGE  
 Chapter 3 Linear Motion  
 Free-Fall Speed

1. Aunt Merna gives you \$10 per second for 4 seconds. How much money do you have after 4 seconds?  
 ...\$40

2. A ball dropped from rest picks up speed at 10 m/s per second. After 6 falls for 6 seconds, how fast is it going? ...60 m/s

3. You have \$50, and Uncle Harry gives you \$10 each second for 3 seconds. How much money do you have after 3 seconds? ...\$80

4. A ball is thrown straight down with an initial speed of 20 m/s. After 3 seconds, how fast is it going? ...80 m/s

5. You have \$50, and you pay Aunt Merna \$10 (down). When will your money run out? ...6 s

6. You shoot an arrow straight up at 50 m/s. When will it run out of speed? ...5 s

7. So what will be the arrow's speed 3 seconds after you shoot it? ...20 m/s

8. What will its speed be 6 seconds after you shoot it? ...30 m/s  
 Speed after 7 seconds? ...20 m/s

Free-Fall Distance

1. Speed is one thing, distance is another. How high is the arrow when you shoot up at 50 m/s when it runs out of speed? ...125 m

2. How high will the arrow be 7 seconds after being shot up at 50 m/s? ...100 m

3. Aunt Merna drops a penny into a waiting well, and it falls for 3 seconds before hitting the water. How fast is it going when it hits? ...60 m/s

4. What is the penny's average speed during its

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