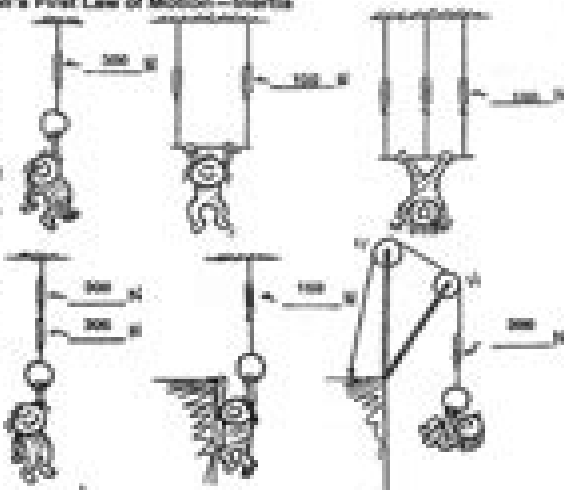


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Chapter 2 Newton's First Law of Motion—Inertia Static Equilibrium

1. Little Nellie Newton wishes to be a gymnast and hangs from a variety of positions as shown. Since she is not accelerating, the net force on her is zero. That is, $\Sigma F = 0$. This means the upward pull of the rope(s) equals the downward pull of gravity (she weighs 300 N). Show the scale readings for each case.



600 N _____ 900 N

400 N _____ 800 N

C N _____ 1200 N

2. When Burl the painter stands in the exact middle of his staging, the left scale reads 600 N. Fill in the reading on the right scale. The total weight of Burl and staging must be

1200 N.

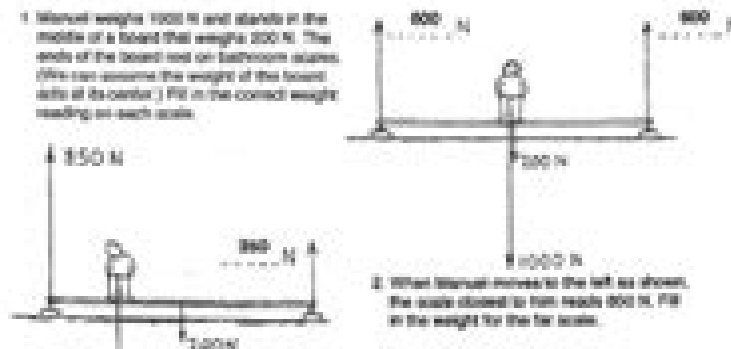
3. Burl stands farther from the left. Fill in the reading on the right scale.

4. In a silly mood, Burl dangles from the right end. Fill in the reading on right scale.

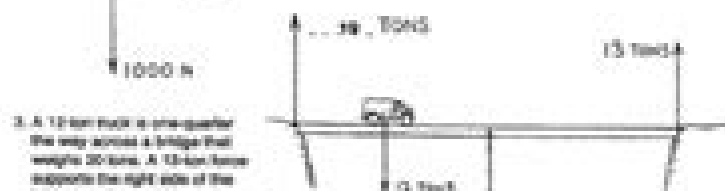
CONCEPTUAL Physics PRACTICE PAGE

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

1. Manual weighs 1000 N and stands in the middle of a board that weighs 200 N. The ends of the board rest on bathroom scales. (He can assume the weight of the board acts at its center.) Fill in the correct weight reading on each scale.

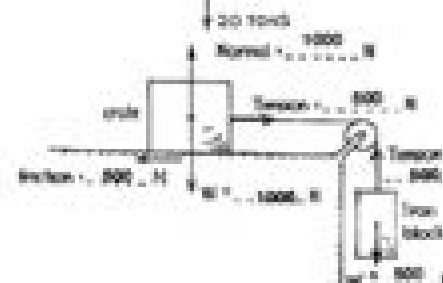


2. When Manual moves to the left as shown, the scale closest to him reads 800 N. Fill in the weight for the far scale.



3. A 12-ton truck is one-quarter the way across a bridge that weighs 20 tons. A 12-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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web 6 a 218 g sample of steam at 121°C is cooled to ice at 14°C find the change in heat content of the system 7 in going from ice at 34°C to steam at 138°C a sample of water absorbs $1.41 \times 10^5 \text{ J}$ find the mass of the sample answers 1 $2.68 \times 10^4 \text{ J}$ 2 $6.23 \times 10^4 \text{ J}$ 3 $1.71 \times 10^4 \text{ J}$ 4 $1.11 \times 10^5 \text{ J}$ 5 $2.11 \times 10^5 \text{ J}$ 6

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