NAME:

TEAM:

THIS IS A PRACTICE ASSESSMENT. Show formulas, substitutions, answers (in spaces provided) and units!

1. What is the weight (in Newtons) of a 75-kg person? Draw a free body diagram of that person standing on the ground. Be sure to include labels on all of the forces you have in cluded. 1. 75/0 N

See diagram

A wooden crate is being dragged along a floor to the right with a tension of 80. N being applied at an angle of 20° above the horizontal. There is friction between the crate and the floor.



T = 80 N

Draw a labeled free body diagram of the crate.

See diagram

If the crate is not accelerating, what is the value of the friction force? $\Sigma F = ma \rightarrow T \cos 20^{\circ} - f = m \times 0 \rightarrow 80 \cos 20^{\circ} - f = 0 \rightarrow 75.175 \text{ N} = f$

3. 75 N

List the contact force(s) we have discussed. List the action-at-a-distance force(s) we have discussed.

CONTACT: tension, normal, friction.

ACTION AT A DISTANCE: weight.

A 95-kg mass is supported by three cables as shown. The two cables anchored to the ceiling make an angle of 30° with the ceiling. The three tensions are labeled.

 Find the numeric value of T₁. $T_3 = mg = 95 \times 10 = 950 \text{ N}.$

 $W = mq = 75 \times 10 = 750 \text{ N}.$

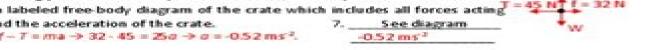
Find the numeric values of T₁ and T₂.

6. 950 N



From symmetry $T_1 = T_2 = T_1$ $\Sigma F_1 = ma_1 \rightarrow 2T \sin 30^{\circ} - T_1 = m \times 0 \rightarrow 2T \times (0.5) = T_2 \rightarrow T = T_3 = 950 \text{ N} (= T_1 = T_2).$

7. A 25-kg crate being pulled leftward by a force of 45 N, has a dynamic friction force of MTI = 32 M32 N. Make a labeled free-body diagram of the crate which includes all forces acting on it. Then find the acceleration of the crate. See diagram $\Sigma F = mo \rightarrow f - T = ma \rightarrow 32 - 45 = 25\sigma \rightarrow \sigma = -0.52 \text{ ms}^2$. -0.52 ms⁻²



8. What is the acceleration of a 540-newton person who is experiencing a net force of 135 N?

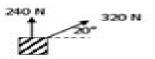
 $W = mq \rightarrow 540 = m \times 10 \rightarrow m = 54 \text{ kg}$ $F = ma \rightarrow 135 = 54a \rightarrow a = 2.5 \text{ ms}^2$.

8. 2.5 ms²

There are exactly two forces acting on the 35-kg crate, as shown.

What is the resultant force acting on it? 9. 460 N F. = 320 cos 20" = 300.702 N F_v = 240 + 320 sin 20" = 342,606 N.

 $F^{2} = F_{+}^{2} + F_{+}^{2} = 300.702^{2} + 342.606^{2} \rightarrow F = 455.852 \text{ N}.$



Physics The Physical Setting Topic 2 Answers

Robert R. Redfield

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