

Topic 2.2 – Forces

Formative Assessment

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 included.

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

1. 750 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.

2. Draw a labeled free body diagram of the crate.

2. See diagram



3. 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

4. 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.

5. Find the numeric value of T_3 .

5. 950 N

$$T_3 = mg = 95 \times 10 = 950 \text{ N.}$$

6. Find the numeric values of T_1 and T_2 .

6. 950 N

From symmetry $T_1 = T_2 = T$:

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



7. A 25-kg crate being pulled leftward by a force of 45 N, has a dynamic friction force of 32 N. Make a labeled free-body diagram of the crate which includes all forces acting on it. Then find the acceleration of the crate.

$$\Sigma F = ma \rightarrow f - T = ma \rightarrow 32 - 45 = 25a \rightarrow a = -0.52 \text{ m/s}^2.$$

7. See diagram

-0.52 m/s^2



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

$$W = mg \rightarrow 540 = m \times 10 \rightarrow m = 54 \text{ kg}$$

$$F = ma \rightarrow 135 = 54a \rightarrow a = 2.5 \text{ m/s}^2.$$

8. 2.5 m/s^2

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

9. What is the resultant force acting on it?

9. 460 N

$$F_x = 320 \cos 20^\circ = 300.702 \text{ N}$$

$$F_y = 240 + 320 \sin 20^\circ = 342.606 \text{ N.}$$

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



Physics The Physical Setting Topic 2 Answers

Robert R. Redfield



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