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Calculating work worksheet physics answers key book 1

Name_____
Period___Date_____

Net Force (Unbalanced Forces) Worksheet 4

1. A $4600\,kg$ helicopter accelerates upward at $2.0\,m/s^2$. The force of the air on the propellers is called a lift force (F_L).
   a. Draw a force diagram of the helicopter. (Which force is bigger? How do you know?)
   b. Write a net force equation for the vertical forces acting on the helicopter.
   c. What lift force is exerted by the air on the propellers?

2. The maximum force that a grocery bag can withstand without ripping is $250\,N$. Suppose that the bag is filled with $20\,kg$ of groceries and lifted with an acceleration of $5.0\,m/s^2$.
   a. Draw a force diagram of the groceries. (Which force is bigger? How do you know?)
   b. Write a net force equation for the vertical forces acting on the groceries.
   c. Do the groceries stay in the bag?

3. A sign in an elevator states that the maximum occupancy is 20 persons. Suppose that the safety engineers assume the mass of the average rider is $75\,kg$. The elevator itself has a mass of $500\,kg$. The cable supporting the elevator can tolerate a maximum force of $30\,000\,N$.
   a. Draw a force diagram of the elevator. (Which force is bigger? How do you know?)
   b. Write a net force equation for the vertical forces acting on the elevator.
   c. What is the greatest acceleration that the elevator's motor can produce without snapping the cable?

Name _____ Date _____ Physical Science Period _____

Chapter 11 & 12 Study Guide: Motion & Forces

Chapter 11: Motion
1. Define *include the formula and circle diagram for calculating speed, velocity, and acceleration.*
   a. Distance: The length between two objects or the length of the path traveled.
   b. Speed: distance traveled by the time it took to travel. Speed= distance/time
   c. Velocity: distance traveled by the time it took to travel and the direction that you travelled in. velocity= distance/time
   d. Acceleration: change in velocity or velocity over time. acceleration = (velocity final - velocity initial)/time
2. What is the speed of an object at rest? Zero m/s
3. The difference between speed and velocity is that velocity includes direction.
4. The SI unit for distance is meter (m)
5. The SI unit for speed or velocity is meter per second (m/s)
6. The SI unit for acceleration is meter per second squared (m/s²)
7. On a **distance-time** graph, what does the slope tell you? Speed or velocity
8. On a **speed-time** graph, what does the slope tell you? acceleration

Chapter 12: Forces
9. Describe (what does it say and what is it commonly called)
   a. Newton's First law of Motion: Law of Inertia. Object in motion stays in motion or an object at rest stays at rest UNLESS acted on by a FORCE.
   b. Newton's Second law of Motion: F=ma. Force equals the product of an object's mass and acceleration. (or Acceleration is equal to the force and inversely proportional to mass)
   c. Newton's Third law of Motion: Action/Reaction Law. For every action there is an equal and opposite reaction.
10. Give **an example for each** of Newton's laws.
    a. Newton's First law of Motion: holder won't move unless something pushes on it, and the rocks won't stop rotating unless a force acts on it.
    b. Newton's Second law of Motion: it takes more force to accelerate a school bus than a toy car.
    c. Newton's Third law of Motion: my foot pushed on the ball (action force), the ball pushes back (reaction force) and they's forward (resulting net force). OR you sitting in the desk is pushing down on the desk and the desk is pushing up on you but they are balanced so no CHANGE in motion.
11. **Define and give an example of each of the following terms.**

Definition	Example
a. Friction: force that opposes motion	a. Friction: heat when rubbing hands together.
b. Static Friction: friction that prevents object from moving	b. Static Friction: Pushing against dresser that won't move
c. Sliding Friction: friction that occurs between objects sliding past each other.	c. Sliding Friction: going down a slide, dresser sliding across the floor.
d. Rolling Friction: friction that occurs between object rolling against another object.	d. Rolling Friction: roller skates on pavement.
e. Fluid Friction: friction that occurs in a fluid (Example of Fluid: water, quick sand, air ...)	

Name _____ Period _____ Date _____ AP Physics

Quiz: 2D Motion [Graphs]

▶ Show work for calculations. Use correct units, significant figures and signs (+, −) for numerical answers.

1. The horizontal and vertical positions of an object are graphed over time.

a. __0.8 m/s__ Calculate the average horizontal velocity.

b. __3 sec__ When is the object moving with the smallest speed?

c. __-1.6 m/s__ Calculate the average (vertical) velocity of the object for the entire time shown. −8/5

d. __16 m__ Calculate the magnitude of the initial position vector. $8 + 14 + x^2$

e. Sketch approximate **vertical** velocity-time and acceleration-time graphs to match the motion.

2. The acceleration of an object, starting from rest, is shown in the graph. Other than at t = 0, when is the velocity of the object equal to zero?

A. During the interval from 1.0 s to 3.0 s.
B. At t = 3.5 s
C. At t = 4.0 s
D. At t = 5.0 s
E. At no other time less than or equal to 5 s.

3. The velocity of a wind-up toy is graphed. Assume the toy never goes behind the observer.

a. __1.5 sec__ When is the toy at the greatest distance from the observer?

b. __-2 m/s²__ Calculate the acceleration of the wind-up from t = 1 to t = 2 seconds.

c. __0.69 m/s²__ Calculate the average acceleration for the toy for the entire trip. $\Delta v = 1.5 - 0.75$
= +.75

$\frac{\Delta v}{\Delta t} = \frac{0.75}{3}$ = +.75

Quiz: 2D Motion   1   10/5/13

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