



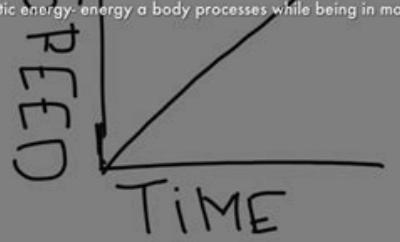
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**KEY VOCAB.**

1. Velocity: the speed of something in a given direction
2. Speed: the rate at which someone or something is able to operate
3. Time: the indefinite continued progress of existence and events in the past, present, and future
4. Potential energy: when an object is at its potential point
5. Kinetic energy: energy a body possesses while being in motion



Name: \_\_\_\_\_ Date: \_\_\_\_\_

Period: \_\_\_\_\_

## Acceleration Problems

4. A roller coaster car moving going up a slope. At 0 starts down the slope. Its speed is 10 m/s. The maximum force of the brakes on this slope is 10 N/m/s. What is the average acceleration?

$$a = \frac{F}{m}$$

5. An object accelerates from 10 m/s to 15 m/s. Without this acceleration it would have been moving at 12 m/s. What is the maximum acceleration?

$$a = \frac{\Delta v}{\Delta t} = \frac{15 - 10}{2} = 2.5 \text{ m/s}^2$$

6. In one acceleration run a car's average acceleration from 0 to 10 m/s in 5 seconds. What was the car's average acceleration?

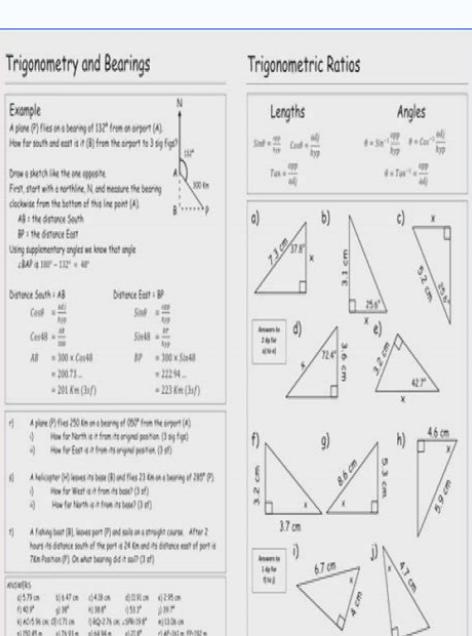
## Velocity Problems

7. An object accelerates from 5 m/s to 10 m/s over 5 seconds. What is the object's average acceleration?

$$a = \frac{\Delta v}{\Delta t}$$

8. If a person runs acceleration of 10 m/s, acceleration and a time of 10 m/s<sup>2</sup> for 10 seconds, what was their average velocity?

$$v = \frac{1}{2} (v_i + v_f)$$

Name: Answer Key2<sup>3</sup>

$$4^2 + 49 = \underline{65}$$

$$4 + 6^2 = \underline{40}$$

$$3^2 + 5 = \underline{14}$$

$$4 + 7^2 = \underline{53}$$

$$2^3 + 83 = \underline{91}$$

$$5^2 + 80 = \underline{105}$$

$$2 + 1^2 = \underline{3}$$

$$9 + 4^3 = \underline{73}$$

$$3^2 + 14 = \underline{23}$$

$$71 + 9^0 = \underline{72}$$

$$4^2 + 42 = \underline{58}$$

$$96 + 2^0 = \underline{97}$$

$$7^0 + 5 = \underline{6}$$

$$4^2 + 1 = \underline{17}$$

$$46 + 8^0 = \underline{47}$$

$$6^1 + 13 = \underline{19}$$

Total: 16      Goal: \_\_\_\_\_

Complete: \_\_\_\_\_      Correct: \_\_\_\_\_

### **Limiting Reagent Worksheet #1**

Given the following reaction: (Balance the equation first!)  

$$1 \text{ C}_2\text{H}_6 + 5 \text{ O}_2 \rightarrow 2 \text{ CO}_2 + 4 \text{ H}_2\text{O}$$

a) If you start with 14.8 g of  $\text{C}_2\text{H}_6$  and 3.44 g of  $\text{O}_2$ , how many grams of  $\text{H}_2\text{O}$  are produced?

$$\frac{14.8 \text{ g C}_2\text{H}_6}{30.07 \text{ g/mol C}_2\text{H}_6} = \frac{0.49 \text{ mol C}_2\text{H}_6}{1 \text{ mol C}_2\text{H}_6} = 0.49 \text{ mol C}_2\text{H}_6$$

$$\frac{0.49 \text{ mol C}_2\text{H}_6}{1 \text{ mol C}_2\text{H}_6} \times \frac{4 \text{ mol H}_2\text{O}}{1 \text{ mol C}_2\text{H}_6} = 1.96 \text{ mol H}_2\text{O}$$

$$\frac{1.96 \text{ mol H}_2\text{O}}{18.015 \text{ g/mol H}_2\text{O}} = 34.19 \text{ g H}_2\text{O}$$

b) Which is the limiting reagent (which reactant created less  $H_2O$ )?  
How many moles of the non-limiting reagent are actually used?

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Answer: ACDHIKNO. a. TRUE - Work is a form of energy, and in fact it has units of energy.. b. FALSE - Watt is the standard metric unit of power; Joule is the standard metric unit of energy.. c. TRUE - A N•m is equal to a Joule. d. TRUE - A  $\text{kg} \cdot \text{m}^2 / \text{s}^2$  is a mass unit times a speed squared unit, making it a kinetic energy unit and equivalent to a Joule.. e. FALSE - Work is not dependent ... May 17, 2021 · Newton S 2nd Law Of Motion Worksheet Answer Key. Some of the worksheets for this concept are Newtons laws work Newton force and motion work 48 key pdf epub ebook Newtons 2 law work physicsfundamentals answer key pdf Newtons law practice problems answer key epub Math skills newton second law answer key Newton second. Kinematics (Description of Motion) Problems. Also known as motion problems, these problems ask you to describe motion. Time is a key variable that tells you to work with the kinematic equations. 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