



Determine if the source would be a **Primary Source(P)** or a **secondary Source(S)**.

• A **Primary Source** is information that was created at the same time as an event or by a person directly involved in the event.

*Diaries, speeches, letters, official records, autobiographies.*

• A **Secondary Source** is information from somewhere else or by a person not directly involved in the event.

*Encyclopedias, textbooks, book reports.*

- 1) A play showing how Benjamin Franklin flew a kite during a lightning storm.
- 2) A short story describing Thomas Edison and Nikola Tesla's 'electrical' battle.
- 3) Anne Frank's diary describing her life during World War 2.
- 4) A cartoon showing how Pocahontas met John Smith.
- 5) A text book describing the civil rights movement.
- 6) A news report about the opening of a power plant.
- 7) A scientist explaining what it was like for Buzz Aldrin to walk on the moon.
- 8) A YouTube video describing how the pyramids were built.
- 9) An interview with Alexander Graham Bell about how he invented the telephone.
- 10) A radio broadcast from the day the Soviet Union launched Sputnik.
- 11) An autobiography about the 40th president, Ronald Reagan.
- 12) A book describing Christopher Columbus sailing to America.
- 13) A famous artist's painting of what cowboy life was probably like.
- 14) A journal by a cowboy about the cattle drives from Texas to Kansas.
- 15) The United States Constitution.

**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_

## SECTION

## 2

## Study Guide

## The Simplest Matter

## Chapter

## 4

**Directions:** Complete the table by writing in the appropriate characteristics for metals, metalloids, and nonmetals.

Characteristics	Metals	Metalloids	Nonmetals
1. State of matter at room temperature			
2. Shininess			
3. Conductor of heat or electricity			
4. Malleability			
5. Ductility			
6. Location on periodic table			

**Directions:** The square below represents one element from the periodic table. Identify and describe the numbered items. Then answer the questions below.

2	← 8. _____
<b>He</b>	
Helium	
4.003	

7. \_\_\_\_\_

9. \_\_\_\_\_

10. What is the atom's mass number?

\_\_\_\_\_

11. What are isotopes?

\_\_\_\_\_

\_\_\_\_\_

## SECTION

## 3

## Study Guide

## Compounds and Mixtures

## Chapter

## 4

**Directions:** Select the term below that best describes each food listed.

homogeneous mixture

compound

heterogeneous mixture

- |                    |                   |
|--------------------|-------------------|
| 1. milk _____      | 6. popsicle _____ |
| 2. salt _____      | 7. chili _____    |
| 3. sugar _____     | 8. taco _____     |
| 4. soda pop _____  | 9. pizza _____    |
| 5. ice cream _____ | 10. water _____   |

**Directions:** Answer the following questions on the lines provided.

11. Describe what a compound's formula tells us about the compound.

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12. Both compounds and mixtures contain more than one kind of atom. Explain how a compound is different from a mixture.

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**Directions:** Draw a line from the term on the right to its definition or description on the left.

- |   |                       |
|---|-----------------------|
| 13. a sample of matter that has the same composition and properties throughout                | heterogeneous mixture |
| 14. a pure substance whose smallest unit is made up of atoms of more than one element         | homogeneous mixture   |
| 15. two or more substances that are together but do not combine to form a new, pure substance | compound              |
| 16. a mixture that is the same throughout   | substance             |
| 17. a mixture with visible components   | mixture               |

# MULTIPLYING FRACTIONS

## ERROR Analysis Task

### PROBLEM:

Joshua solved the problem below. His work and answer is in **BOLD**.

Find the product:  $\frac{1}{9} \times \frac{4}{5} =$

$$\frac{1}{9} \times \frac{4}{5} = \frac{5}{36}$$

### ERROR ANALYSIS:

What mistakes did Joshua make? Use complete sentences to explain.

### CORRECT WORK:

Solve the problem above correctly.

# DIVIDING FRACTIONS

## ERROR Analysis Task

### PROBLEM:

Sam solved the problem below. His work and answer is in **BOLD**.

Find the quotient:  $\frac{8}{12} \div \frac{2}{3} =$

$$\frac{\mathbf{8}}{\mathbf{12}} \div \frac{\mathbf{2}}{\mathbf{3}} = \frac{\mathbf{4}}{\mathbf{4}} = \mathbf{1}$$

### ERROR ANALYSIS:

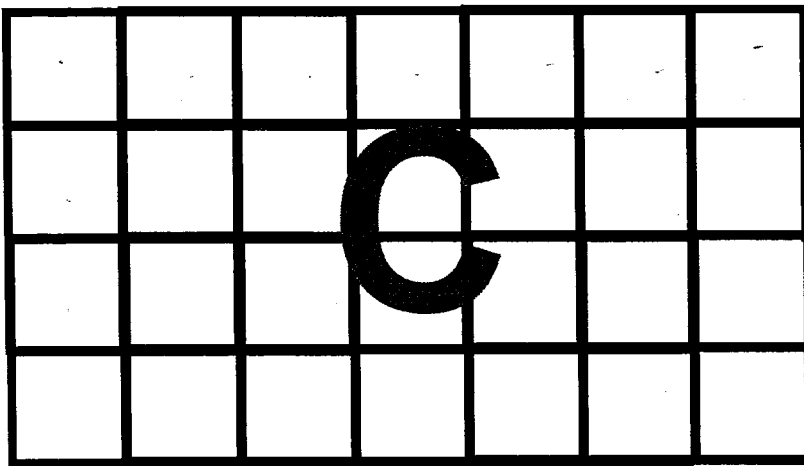
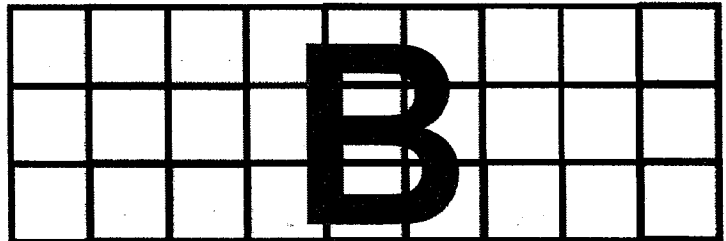
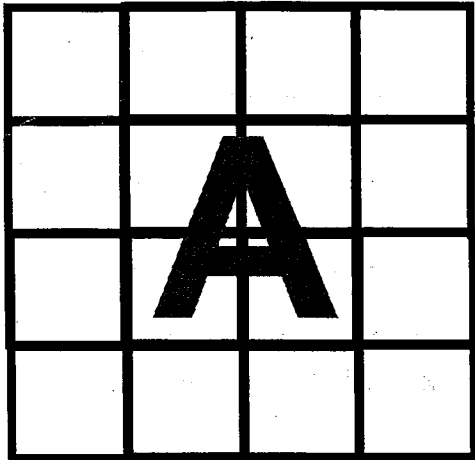
What mistakes did Sam make?  
Use complete sentences to explain.

### CORRECT WORK:

Solve the problem above correctly.

## Discovering the Area of Triangles

- 1) Find the area of each of the following rectangles using the area formula and record your answer in the column titled "Rectangle" on the following page.
- 2) Then cut out each of the rectangles.
- 3) On shape A draw a diagonal line from the bottom left vertex to the top right vertex and cut out along this line. Find the area of this triangle.
- 4) Repeat step 3 for shape B
- 5) For shape C draw a diagonal line from the bottom left vertex to any other point on the top side that is NOT a vertex. Then draw a line from this point to the bottom right vertex of the rectangle, and cut along these diagonal lines. Find the area of this triangle.



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

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

## Discovering the Area of Triangles

*Show your work*

Shape	Rectangle Area	Triangle Area
A		
B		
C		

1) How is the area of a triangle related to the area of a rectangle?

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2) If Alison has a square chocolate bar with 16 blocks of chocolate and leaves a triangle piece for Dennis, how many blocks of chocolate will Dennis receive?

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Fill in the blanks using the information you gained

Rectangle Area	Triangle Area
10cm <sup>2</sup>	
25cm <sup>2</sup>	
	30m <sup>2</sup>
100mm <sup>2</sup>	
	12.5cm <sup>2</sup>
	15.5cm <sup>2</sup>
43cm <sup>2</sup>	
65.5cm <sup>2</sup>	

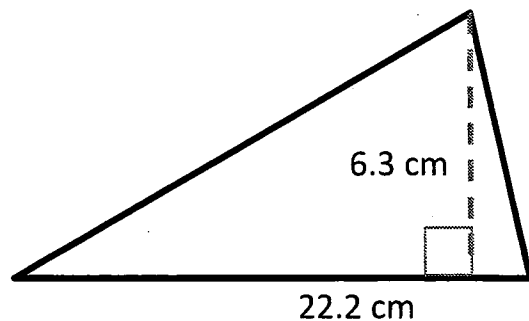
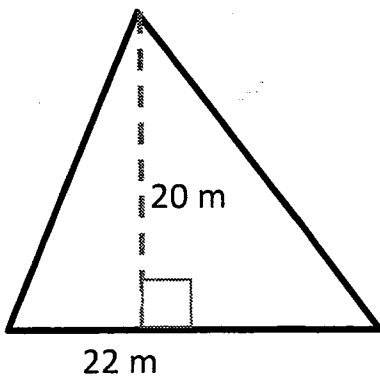
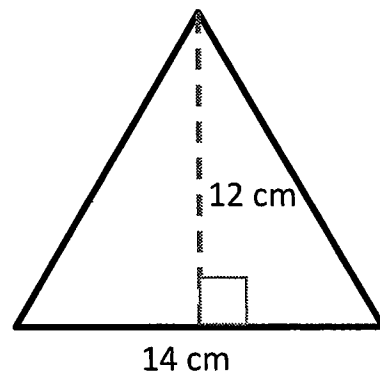
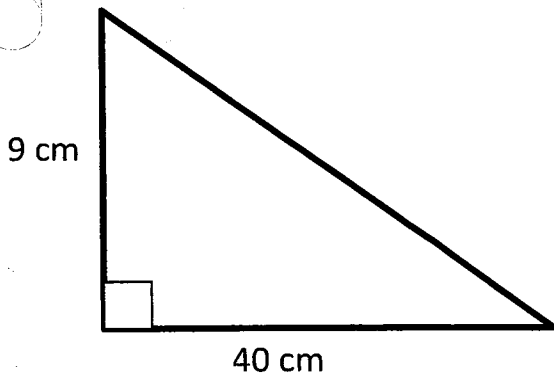


Name: \_\_\_\_\_

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

# Area of Triangles

1. The \_\_\_\_\_ of a polygon is the amount of surface it covers.
2. To find the area of a triangle, \_\_\_\_\_ the base by the height, then divide by two.
3. Another way this can be written is:  
\_\_\_\_\_
4. The algebraic formula is: \_\_\_\_\_ or  
\_\_\_\_\_
5. The base and height are \_\_\_\_\_ to each other.
6. Perpendicular lines intersect to form a \_\_\_\_\_ angle.
7. Right angles measure \_\_\_\_\_
8. Find the area of each triangle below:



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

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

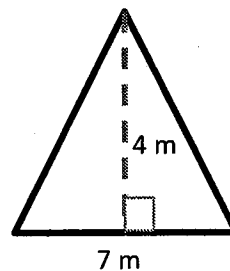
# Practice: Area of Triangles

#1 What is the area of a triangle with a base of 6m and a height of 7m?

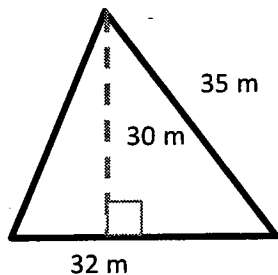
#2 What is the area of a triangle with a base of 10 cm and a height of 40 cm?

#3 What is the area of a triangle with a base of 14.5 cm and a height of 7.1 cm?

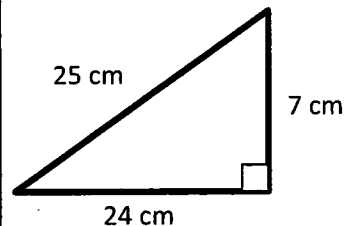
#4 Find the area of the figure below:



#5 Find the area of the figure below:



#6 Find the area of the figure below:



#7 Susan is making a quilt using triangular shaped pieces. Each triangle piece has a base of 5 inches and a height of 6 inches. If Susan needs to cut 20 identical triangles, what is the total amount of fabric she needs?

## Hyperbole: Analyze & Complete

**hyperbole**

**an exaggeration that cannot possibly be true**

*When we went ice fishing, it was a million degrees below zero!*

Directions: Read each statement. On the line, write *yes* if the statement is a hyperbole and *no* if the statement is not a hyperbole. Remember, a hyperbole cannot possibly be true.

- \_\_\_\_\_ 1. In science class this morning, I was dying of boredom.
- \_\_\_\_\_ 2. Dad won like a thousand dollars at the casino last night.
- \_\_\_\_\_ 3. When Mom was pregnant for my little brother, she was bigger than a whale.
- \_\_\_\_\_ 4. Mrs. Baker's new white tennis shoes were brighter than the sun.
- \_\_\_\_\_ 5. With her new shoes, she is faster than the speed of light.
- \_\_\_\_\_ 6. Molly couldn't go to the party because she had a ton of homework to do.
- \_\_\_\_\_ 7. That last day of school stretches on for hours.
- \_\_\_\_\_ 8. I am not going outside in that 100 degree weather!
- \_\_\_\_\_ 9. Mark has a brain the size of a peanut.
- \_\_\_\_\_ 10. I'm so hungry, I could eat 2 steaks right now!



Directions: Finish each statement to make a hyperbole.

11. Dad snores so loud! He \_\_\_\_\_.
12. After a week of summer camp, I was so tired \_\_\_\_\_.
13. His car is so old, \_\_\_\_\_.
14. Bob is taller than \_\_\_\_\_.
15. The meatloaf in the school cafeteria is \_\_\_\_\_.

reading candy a figurative language unit