Name	Class	Date
Skills Worksheet		
<b>Directed Reading</b>	A	
Directed Redding		
Section: Elements		
1. Which of the followir a. crushing b. weighing c. melting d. passing electric cu		chemical change?
ELEMENTS, THE SIMPLEST SUI	BSTANCES	
2. A pure substance that canno	t be separated into sir	npler substances by
physical or chemical means	is a(n)	•
<b>3.</b> A substance that contains or	aly one type of particle	eis
a(n)		
PROPERTIES OF ELEMENTS		
4. The amount of an element p	resent does not affect	the element's
<b>5.</b> Why does a helium-filled bal	loon float up when it i	s released?
Look at each property listed belo	ow. If it is a characteris	tic property of elements,
write CP on the line. If it is not a	characteristic property	y, write N.
<b>6.</b> size	12.	color
	12. 0	
<b>7.</b> melting point	13. ]	nardness
<b>7.</b> melting point <b>8.</b> density	13. l	nardness flammability
7. melting point 8. density 9. shape	13. 1 14. 1 15. 1	hardness flammability weight
<b>7.</b> melting point <b>8.</b> density	13. 1 14. 1 15. 1	nardness flammability

	Class Date
Name	Class Date
Directed Reading A continued	
CLASSIFYING ELEMENTS BY THE	IR PROPERTIES
18. All elements can be classified	
19. An element that is shiny and	that conducts heat and electric current well is
a(n) <b>20.</b> An element that conducts he	at and electric current
	es of both mount
are	n applies to a metal, a nonmetal, or a metalloid. Dace provided.
22. are malleable	<b>a.</b> metalloids <b>b.</b> nonmetals
<b>23.</b> are dull or shiny	c. metals
<b>24.</b> are poor conductor	'S
<b>25.</b> tend to be brittle a	nd unmalleable as solids
<b>26.</b> are always shiny	
	niconductors
<b>28.</b> are always dull	
	ctile
<b>30.</b> include boron, sil	
<b>31.</b> include lead, tin,	
<b>32.</b> include sulfur, io	

me	Class Date
	rksheet
Direc	ted Reading A
ection	: Compounds
List th	ree examples of compounds you encounter every day.
омрои	NDS: MADE OF ELEMENTS
2	. Which of the following is NOT true about compounds?
	a. Compounds are combinations of elements that John in specific
	according to their masses. <b>b.</b> The mass ratio of a specific compound is always the same.
	- Compounds are random complications of elements.
	Different mass ratios mean different compounds.
3. When	two or more elements are joined by chemical bonds to form a new pur
subst	ance, we call that new substance a(n)
# A cor	mpound is different from the that
	ed to form it.
PROPER	TIES OF COMPOUNDS
	5. Which of the following statements is true about the properties of cor
	1-0
	<ul> <li>a. A property of all compounds is to react with acid.</li> <li>b. Each compound has its own physical properties.</li> </ul>
	a series to identified by their chellical properties.
	A compound has the same properties as the elements that form
6 Sodi	and chloring can be extremely dangerous in their elemental form.
How	is it possible that we can eat them in a compound?

4	Date
ame Class	
Directed Reading A continued	
Directed Reading A continued	
What correct term. Wi	ite the letter in the space
Natch the correct description with the correct term. Wi	
rovided.	a. sodium chloride
7. a poisonous, greenish yellow gas	
7. a poisonous, si	<b>b.</b> chlorine
8. table salt	c. sodium
9. a soft, silvery white metal that reacts	
violently with water	
Violently with waste	
<b>BREAKING DOWN COMPOUNDS</b> 10. What compound helps give carbonated beverage	
11. Which elements make up the compound that he their "fizz"?	
11. Which elements make up the compound that he their "fizz"?	lps give carbonated beverage
<ul><li>11. Which elements make up the compound that he their "fizz"?</li><li>12. The only way to break down a compound is the</li></ul>	lps give carbonated beverage
<ul><li>11. Which elements make up the compound that he their "fizz"?</li><li>12. The only way to break down a compound is the</li></ul>	lps give carbonated beverage
<ul> <li>11. Which elements make up the compound that he their "fizz"?</li> <li>12. The only way to break down a compound is that a(n) change.</li> <li>COMPOUNDS IN YOUR WORLD</li> <li>13. Aluminum is produced by breaking down the</li> </ul>	lps give carbonated beverage
<ul> <li>11. Which elements make up the compound that he their "fizz"?</li> <li>12. The only way to break down a compound is the a(n) change.</li> </ul>	lps give carbonated beverage



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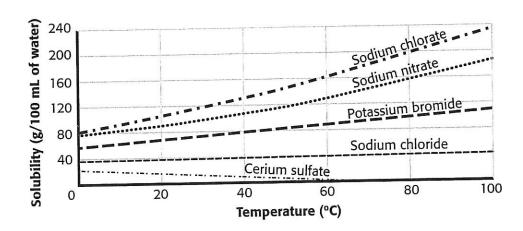
de and Mixtures

Name Class	Date
Skills Worksheet	
<b>Directed Reading A</b>	
Section: Mixtures	
1. A pizza is a(n)	
PROPERTIES OF MIXTURES	ana natahani salla
<b>2.</b> A combination of two or more substances that	are not chemically
combined is a(n)	II 41 6(-)
3. When two or more materials combine chemica	lly, they form a(n)
<b>4.</b> How can you tell that a pizza is a mixture?	
4. How can you ten that a pizza is a mixture:	
5. Mixtures are separated through	changes.
	-
Natch the correct method of separation with the ea	ach substance. Write the le
Match the correct method of separation with the ea	ach substance. Write the le
Match the correct method of separation with the earn the space provided. Each method may be used on	ach substance. Write the le nly once.
Match the correct method of separation with the earn the space provided. Each method may be used on the crude oil  7. a mixture of aluminum and iron	ach substance. Write the le nly once. a. distillation b. magnet c. filter
Match the correct method of separation with the earn the space provided. Each method may be used on the space provided. Each method may be used on the space of a crude oil 7. a mixture of aluminum and iron 8. parts of blood	ach substance. Write the le nly once. a. distillation b. magnet
Match the correct method of separation with the earl the space provided. Each method may be used on the space provided. Each method may be used on the space of t	ach substance. Write the le nly once.  a. distillation b. magnet c. filter d. centrifuge
Match the correct method of separation with the earl the space provided. Each method may be used on the space provided. Each method may be used on the space of a crude oil to a mixture of aluminum and iron to a parts of blood to sulfur and salt.  O. Granite can be pink or black, depending on the space of the space o	ach substance. Write the le nly once.  a. distillation b. magnet c. filter d. centrifuge
<ul> <li>Match the correct method of separation with the earlier the space provided. Each method may be used on the space provided. Each method may be used on the space of aluminum and iron.</li> <li>7. a mixture of aluminum and iron.</li> <li>8. parts of blood.</li> <li>9. sulfur and salt.</li> <li>0. Granite can be pink or black, depending on the of feldspar, mica, and quartz.</li> </ul>	ach substance. Write the le nly once.  a. distillation b. magnet c. filter d. centrifuge
Match the correct method of separation with the earn the space provided. Each method may be used on the space provided. Each method may be used on the space of aluminum and iron  8. parts of blood  9. sulfur and salt  O. Granite can be pink or black, depending on the of feldspar, mica, and quartz.	ach substance. Write the le nly once.  a. distillation b. magnet c. filter d. centrifuge
Match the correct method of separation with the earn the space provided. Each method may be used on the space provided. Each method may be used on the space of the sequence o	ach substance. Write the lendy once.  a. distillation b. magnet c. filter d. centrifuge
Match the correct method of separation with the earn the space provided. Each method may be used on the space of a crude oil  7. a mixture of aluminum and iron  8. parts of blood  9. sulfur and salt  10. Granite can be pink or black, depending on the of feldspar, mica, and quartz.  SOLUTIONS	ach substance. Write the lendy once.  a. distillation b. magnet c. filter d. centrifuge
Match the correct method of separation with the earn the space provided. Each method may be used on the space provided. Each method may be used on the space of a mixture of aluminum and iron  8. parts of blood  9. sulfur and salt  0. Granite can be pink or black, depending on the of feldspar, mica, and quartz.  SOLUTIONS  11. Which of the following is NOT true of so a. They contain a dissolved substance of b. They are composed of two or more expected to the contain a substance called a solution.	ach substance. Write the lendy once.  a. distillation b. magnet c. filter d. centrifuge  colutions? called a solute. venly distributed substance
Match the correct method of separation with the earn the space provided. Each method may be used on the space provided. Each method may be used on the space of a mixture of aluminum and iron to a mixture of aluminum and iron to a parts of blood to a sulfur and salt to a sulfur and salt to a sulfur and quartz.  SOLUTIONS  11. Which of the following is NOT true of so a They contain a dissolved substance of the composed of two or more expected to the substance called a solution of the solution and substance called a solution a substance called a solution of the solution.	a. distillation b. magnet c. filter d. centrifuge  blutions? called a solute. venly distributed substance livent, in which another substance livent.
Match the correct method of separation with the earn the space provided. Each method may be used on the space provided. Each method may be used on the space of a mixture of aluminum and iron to a mixture of aluminum and iron to a parts of blood to a sulfur and salt to a sulfur and salt to a sulfur and quartz.  SOLUTIONS  11. Which of the following is NOT true of so a They contain a dissolved substance of the total parts are composed of two or more expected to the contain a substance called a solution to the space of two or more expected to the contain a substance called a solution.	a. distillation b. magnet c. filter d. centrifuge  blutions? called a solute. venly distributed substance, in which another substance.

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Class Date
Name Date
Name Directed Reading A continued
is the substance that is dissolved,
is the substance in which is
in water because it disserved.  If when two gases or two liquids form a solution, the substance that is present
in the largest amount is the  16. A solid solution of metals or nonmetals dissolved in metals is
a(n)  Not can particles in solution NOT do because they are so small?
CONCENTRATION OF SOLUTIONS  Lincolved in a solvent is called
18. A measure of the amount of solute dissolved in a solved in a s
19. What is the difference between a dilute solution and a concentrated solution?
19. What is the difference of the contain temperature and
<b>20.</b> The ability of a solute to dissolve in a solvent at a certain temperature and
pressure is called

LAAivtures



- \_\_\_\_21. Look at the graph. Which solid is less soluble at higher temperatures than at lower temperatures?
  - a. sodium chloride
  - **b.** sodium nitrate
  - c. potassium bromide
  - d. cerium sulfate
- **\_\_22.** Look at the graph. Which compound's solubility is least affected by temperature changes?
  - a. sodium chloride
  - **b.** sodium nitrate
  - c. potassium bromide
  - d. cerium sulfate

Date
Date
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with an
with an
quickly in water?
pension?
spension?
ommon?
e the letter in the space
a. colloid
<b>b.</b> solution
c. suspension

#### Practice 4-6

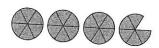
## **Mixed Numbers and Improper Fractions**

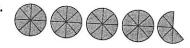
What mixed number represents the amount shaded?











Write each mixed number as an improper fraction.

**4.** 
$$1\frac{7}{8}$$
 \_\_\_\_\_

5. 
$$2\frac{3}{4}$$

6. 
$$7\frac{1}{3}$$

8. 
$$4\frac{1}{4}$$

9. 
$$5\frac{5}{6}$$

**10.** 
$$2\frac{3}{8}$$
 \_\_\_\_\_

**12.** 
$$2\frac{3}{5}$$
 \_\_\_\_\_

Write each improper fraction as a mixed number in simplest form.

**13**. 
$$\frac{15}{2}$$

14. 
$$\frac{8}{3}$$
 \_\_\_\_\_

**15.** 
$$\frac{5}{2}$$

**16.** 
$$\frac{11}{10}$$

**17.** 
$$\frac{7}{6}$$

**18.** 
$$\frac{9}{8}$$
 \_\_\_\_\_

**19.** 
$$\frac{27}{12}$$
 \_\_\_\_\_

**20.** 
$$\frac{26}{18}$$
 \_\_\_\_\_

**21.** 
$$\frac{35}{21}$$

22. Find the improper fraction with a denominator of 6 that is equivalent to  $5\frac{1}{2}$ .

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#### Practice 4-6

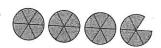
## **Mixed Numbers and Improper Fractions**

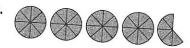
What mixed number represents the amount shaded?











Write each mixed number as an improper fraction.

**4.** 
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**5.** 
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6. 
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 \_\_\_\_\_

**7.** 
$$3\frac{3}{4}$$

8. 
$$4\frac{1}{4}$$

9. 
$$5\frac{5}{6}$$
 \_\_\_\_\_

10. 
$$2\frac{3}{8}$$

**12.** 
$$2\frac{3}{5}$$

Write each improper fraction as a mixed number in simplest form.

**13.** 
$$\frac{15}{2}$$
 \_\_\_\_\_

14. 
$$\frac{8}{3}$$

**15.** 
$$\frac{5}{2}$$
 \_\_\_\_\_

**16.** 
$$\frac{11}{10}$$

17. 
$$\frac{7}{6}$$
 \_\_\_\_\_

**18.** 
$$\frac{9}{8}$$
 \_\_\_\_\_

**19.** 
$$\frac{27}{12}$$
 \_\_\_\_\_

**20.** 
$$\frac{26}{18}$$
 \_\_\_\_\_

**21.** 
$$\frac{35}{21}$$

22. Find the improper fraction with a denominator of 6 that is equivalent to  $5\frac{1}{2}$ .

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Ná	ame			Class			Date
P	ractice 4	1-4					atest Common Fac
Lis	t the factors to	o find the GCF of	each set o	f numbers	• • • •	•••••	······································
1.	8, 12	<b>2.</b> 18, 27		<b>3.</b> 15, 23		4	<b>1</b> . 17, 34
5.	24, 12	<b>6.</b> 18, 24		<b>7.</b> 5, 25		8	20, 25
Use	a division lad	der to find the GO	CF of each	set of numbers.		9	
9.	10, 15	<b>10.</b> 25, 75		<b>11.</b> 14, 21		12.	18, 57
13.	32, 24, 40	<b>14.</b> 25, 60, 7	75	<b>15.</b> 12, 35, 15	-	—— 16.	15, 35, 20
<b>17.</b> 2	28, 24	find the GCF of 6	27, 36	numbers.	19.	15, 305	
<b>20.</b> 5'	7,27	21.	24, 48		22.	56, 35	
<b>23.</b> 75	5, 200	24.	90, 160		25.	72, 108	
olve.							
6. Th	e GCF of two	numbers is 850. It is the smallest tha	Neither nur t these two	mber is divisible by numbers could be	y e?		
	or mannoch 19	numbers is 479. Codd. Neither numbers that these two	per ic dirie	1.1 1 .			

'ractice

### Prime Factors (A)

Use a tree diagram to find the prime factors of each number.

# Subtraction Five Minute Frenzy (A)

Subtract each row number from each column number.

<b>.</b>	10	13	11	18	9.	12	16	15	14	17
5										
8			к							
9										
6.										
3										,
2										
0										
7								27		
1										
4							is a			

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# 2-Digit by 2-Digit Multiplication (A) Use the grid to help you multiply each pair of factors.

		8	2
AUVOSO	×	4	1

	4	4
×	4	2

	1		
		2	5
	×	1	0
-			
	-	-	-

	9	3
×	8	6
 		<u> </u>
		_

Manage Mark	X	7	2
		8	7

		A	
***************************************	The state of the s	4	3
	×	1	0
-	23000		
-			

	6	2
×	5	2
		automa

an worse of		5	6
ACTION AND	×	9	6
		I I I I I I I I I I I I I I I I I I I	

1	9	1
1	4	. 7
×	1	
		-

		9	4
	×	8	3
MEN'S STEEL		t and an arrange	

	×	7	5	
and other		1	3	
enterior a				
Name of Street	Z 27000			

	7.00		
		3_	4
MEN OF PARTY	×	9	8
-	-	3623 STT	-
	and the second s		

	2	3
×	4	8
		-

		4	4
	×	6	2
purpher to a	Marine Se Tr	-	
	-		

	×	7	9
		9	7
OLIVE PROPERTY.		<u></u>	-
Procession of the last of the			

		9	
	×	6	5
T. Marriel Ports			
UP 16 -			

# Long Division with a Grid (A) Date: Name: Calculate each quotient. 2)744 8)528 5) 4 1 5 5) | 5 | 4 | 0 2)584 3)567 8)856 4)620

### Five Minute Adding Frenzy (A)

Write the sum of the column and row numbers in each space. (Range 11 to 20)

+	15	20	16	19	18	12	11.	14	17	13
20		Annual								
13			8							
19										
11										
14										
12										
15										
16										
17										
18										

Time:					/100
.18					

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# Multiplication Facts to 144 (A)

Find each product.

7	3	2	11	2	12	4	7	2	7
× 12	× 10	× 11	× 9	× 2	× 11	× 8	× 12	× 10	_×2
12	5	3	7	6	10	2	12	6	3
_×7	× 9	× 12	× 10	× 9	× 12	× 7	_×7	×3	× 9
3	9	10	7	11	5	10	4	5	12
× 7	_×7	× 12	× 7	× 9	_× 7	_×2	× 12	× 10	× 3
5	12	12	4	2	6	3	9	10	6
× 8	_×9	× 12	× 9	× 3	× 6	×8	× 10	_×4	× 10
2	7	2	8	5	5	4	2	2	9
× 2	_×9	× 11	×3	× 9	× 4	× 4	_×3	_×4	× 2
2	2	4		10	8	8	2	7	3
_×5	× 10	_×6		× 10	×8	_×6	× 12	× 12	_×3
8	3	10	5	3	7	4	9	5	12
× 2	× 9	× 11	× 11	_×7	× 7	_×3	_×2	_×7	_×3
12	3	10	12	4	5	6	3	7	4
_×8	_×9	_×8	_×6	× 10	× 5	_×2	× 11	_×6	× 7
8 ×11	8 × 11	5 × 3	9 × 9	8 _×7	3 × 10	4 × 11	4 × 3		
5 × 6		12 × 8	7 _×4	3 × 12	8 _×9	6 × 11	2 × 8		6 _×4

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