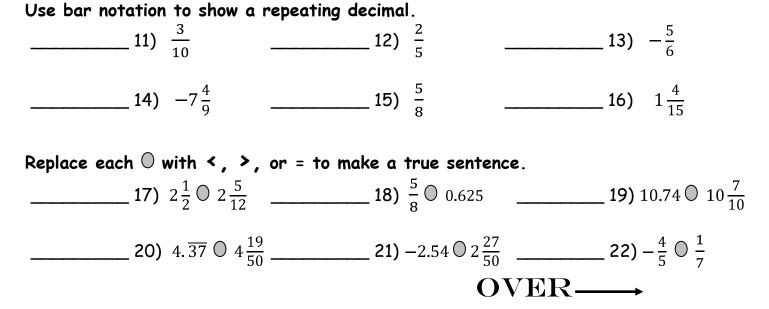
# Chapter 3 (Operations with Rational Numbers) Bringing It All Together #1

### Vocabulary Check

State whether the statement is <i>true</i> or <i>false</i> . If <i>false</i> , replace the underlined word or number to make a true sentence.
1) Numbers that can be written as fractions are called <u>reciprocals</u> .
2) The decimal 4.7 is a <u>terminating</u> decimal.
3) The fractions $\frac{4}{6}$ and $\frac{1}{3}$ are <u>like</u> fractions.
4) To add unlike fractions, rename the fractions using the <u>GCF</u> .
5) A <u>mixed number</u> is another name for the multiplicative inverse.
6) The product of a number and its multiplicative inverse is <u>1</u> .
7) Like fractions are fractions that have the same <u>numerator</u> .
8) Repeating decimals use bar notation to show which digits terminate
9) You need a common denominator to <u>divide</u> fractions.
10) Decimals that repeat or terminate are <u>rational</u> numbers.
2 1 Multine Exections of Nacimals (m. 121-127)

### **3–1 Writing Fractions as Decimals (pp. 121–127)**

Write each fraction or mixed number as a decimal.



Name	Date	Pd	_
3-2 Rational Numbe	ers (pp. 128-133)		
Write each decimal as a fr	action or mixed number in s	simplest form.	
	<b> 24)</b> -0.45		0.875
<b>26)</b> –0.56	<b>27)</b> 0.1	28)	-2.03
<b>29)</b> 0.5	<b>30)</b> 10.27	31)	1.6
Identify all sets to which e 32) -	•	33)	$3\frac{1}{3}$
34) 1	l.151551555	35)	-0.67

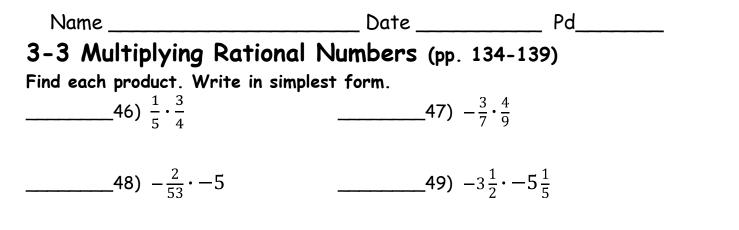
**3-6 Adding and Subtracting Unlike Fractions** (pp. 153-158) Find each sum or difference. Write in simplest form.

<b>36)</b> $\frac{2}{5} + \frac{1}{15}$	$37) -3\frac{5}{6} - 2\frac{1}{2}$
<b>38)</b> $\frac{4}{7} + -1\frac{1}{3}$	39) $\frac{3}{10}\frac{1}{8}$
<b>40)</b> $25\frac{1}{3} - 14\frac{2}{5}$	41) $7\frac{3}{4} + 1\frac{3}{8}$
<b>42)</b> $-\frac{5}{9}-3\frac{2}{3}$	$43) -4\frac{1}{6} + \frac{3}{4}$

\_\_\_\_\_44) Monica needs  $2\frac{3}{4}$  cups of flour for a batch of cookies and  $3\frac{1}{3}$  cups of flour for a dozen muffins. How many cups of flour does Monica need altogether?

\_\_\_\_\_45) Dane and his family drove 357.9 miles in one day. If their trip is a total of  $524\frac{3}{4}$  miles, how much farther do they need to drive?





\_\_\_\_\_50) Mireille has a piece of ribbon that is 10 inches long. Abi's ribbon is  $\frac{5}{8}$  as long. How long is Abi's ribbon?

\_\_\_\_\_51) A liter of water weighs approximately  $2\frac{1}{5}$  pounds. While backpacking, Enrique wants to carry  $3\frac{1}{2}$  liters of water with him. Find the weight of the water that Enrique is taking with him.

**3-4 Dividing Rational Numbers** (pp. 141-146) Find the multiplicative inverse of each number. \_\_\_\_\_52) -16 \_\_\_\_\_53)  $\frac{7}{9}$ \_\_\_\_\_54)  $3\frac{4}{5}$  \_\_\_\_\_55) -4 $\frac{1}{3}$ Find each quotient. Write in simplest form. \_\_\_\_\_56)  $\frac{7}{9} \div -\frac{4}{15}$  \_\_\_\_\_57)  $-2\frac{2}{3} \div 2\frac{2}{7}$ \_\_\_\_\_58)  $\frac{3}{5} \div \frac{9}{10}$  \_\_\_\_\_59)  $3\frac{1}{9} \div -1\frac{1}{6}$ 

\_\_\_\_\_60) Pilar drinks  $1\frac{3}{4}$  glasses of milk each day. At this rate, how many days will it take her to drink a total of 14 glasses?



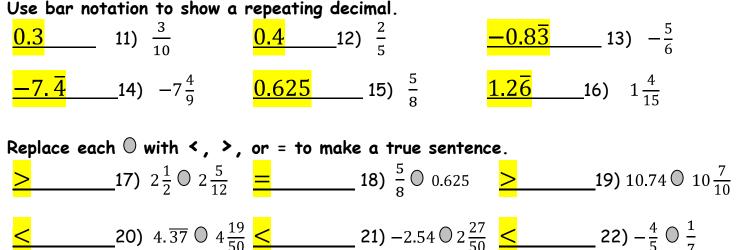
# **Answer Key** Chapter 3 Bringing It All Together #1

### Vocabulary Check

State whether the statement is *true* or *false*. If *false*, replace the underlined word or number to make a true sentence. **false; rational** 1) Numbers that can be written as fractions are called reciprocals. 2) The decimal 4.7 is a terminating decimal. true **<u>false</u>; unlike\_3**) The fractions  $\frac{4}{6}$  and  $\frac{1}{3}$  are <u>like</u> fractions. false; LCD or LCM 4) To add unlike fractions, rename the fractions using the <u>GCF</u>. false; reciprocal 5) A mixed number is another name for the multiplicative inverse. 6) The product of a number and its multiplicative inverse is 1. true false; denominator 7) Like fractions are fractions that have the same numerator. false; repeat 8) Repeating decimals use bar notation to show which digits terminate. false; add or subtract 9) You need a common denominator to divide fractions. \_10) Decimals that repeat or terminate are <u>rational</u> numbers. true

### 3-1 Writing Fractions as Decimals (pp. 121-127)

Write each fraction or mixed number as a decimal.



Name			Date		Pd	
3-2 Rational Numbers (pp. 128-133)						
Write ea	ch decimal as a fi	raction or mix	ed number	r in simplest	form.	
2 2 25	<b>23)</b> 2.08	$-\frac{9}{20}$	<b>24)</b> -0.	.45 <mark>7</mark> 8	<b>25)</b> 0.875	
$\frac{-\frac{14}{25}}{-\frac{14}{25}}$	<b>26)</b> -0.56	<mark>1</mark> 9	<b>27)</b> 0.1	$-2\frac{1}{33}$	<b>28)</b> –2.03	
<mark>5</mark> 9	<b>29)</b> 0.5	10 <mark>3</mark> 11	<b>30)</b> 10.	$\overline{27}$ $1\frac{2}{3}$	<b>31)</b> 1.6	
Identify all sets to which each number belongs. <u>integer, rational</u> 32) $-4$ <u>rational</u> 33) $3\frac{1}{3}$						
<u>irrational</u>	34)	1.151551555	5 <u>rc</u>	ational	35) −0. <del>67</del>	

**3-6 Adding and Subtracting Unlike Fractions** (pp. 153-158) Find each sum or difference. Write in simplest form.

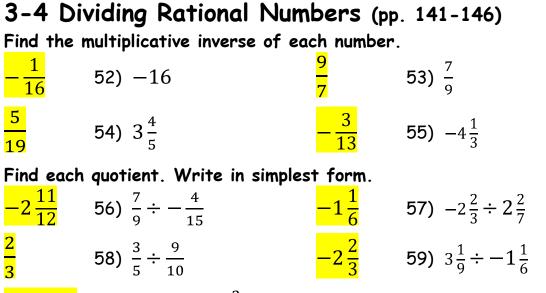
7 15	36) $\frac{2}{5} + \frac{1}{15}$		$-6\frac{1}{3}$ 37) $-3\frac{5}{6}-2\frac{1}{2}$
	38) $\frac{4}{7} + -1\frac{1}{3}$		$\frac{17}{40}$ 39) $\frac{3}{10}\frac{1}{8}$
10 <mark>14</mark> 15	<b>40)</b> $25\frac{1}{3} - 14\frac{2}{5}$		$9\frac{1}{8}$ 41) $7\frac{3}{4} + 1\frac{3}{8}$
$-4\frac{2}{9}$	<b>42)</b> $-\frac{5}{9} - 3\frac{2}{3}$		$-3\frac{5}{12}$ 43) $-4\frac{1}{6}+\frac{3}{4}$
4		0	

 $6\frac{1}{12}$  c 44) Monica needs  $2\frac{3}{4}$  cups of flour for a batch of cookies and  $3\frac{1}{3}$  cups of flour for a dozen muffins. How many cups of flour does Monica need altogether?

 $\frac{166\frac{17}{20}}{10}$  miles or 166.85 miles 45) Dane and his family drove 357.9 miles in one day. If their trip is a total of  $524\frac{3}{4}$  miles, how much farther do they need to drive?

Name \_\_\_\_\_\_ Date \_\_\_\_\_ Pd\_\_\_\_ **3-3 Multiplying Rational Numbers (pp. 134-139)** Find each product. Write in simplest form.  $\frac{3}{20}$  46)  $\frac{1}{5} \cdot \frac{3}{4}$   $-\frac{4}{21}$  47)  $-\frac{3}{7} \cdot \frac{4}{9}$   $\frac{10}{53}$  48)  $-\frac{2}{53} \cdot -5$   $18\frac{1}{5}$  49)  $-3\frac{1}{2} \cdot -5\frac{1}{5}$  $6\frac{1}{4}$  in 50) Mireille has a piece of ribbon that is 10 inches long. Abi's ribbon is  $\frac{5}{8}$  as long. How long is Abi's ribbon?

 $7\frac{7}{10}$  lb 51) A liter of water weighs approximately  $2\frac{1}{5}$  pounds. While backpacking, Enrique wants to carry  $3\frac{1}{2}$  liters of water with him. Find the weight of the water that Enrique is taking with him.



8 days 60) Pilar drinks  $1\frac{3}{4}$  glasses of milk each day. At this rate, how many days will it take her to drink a total of 14 glasses?

