Unit 4 Review Packet

Name _____

Date _____

1. Solve.

   a. $x = 8$; $2x =$ _____

   b. $y = 3^2$; $4y =$ _____

2. Write the number that has a
   6 in the tenths place,
   5 in the billions place,
   1 in the ten thousands place,
   4 in the thousandths place,
   9 in the ten millions place,
   7 in the hundredths place,
   3 in the hundred thousands place,
   and 0's in all of the remaining places.

   ___ , ___ ___ ___ , ___ ___ ___ , ___ ___ ___ • ___ ___ ___

3. Without using a calculator or working out the problem on paper, solve the following problems mentally.

   a. 55 divided by 5 equals _____.

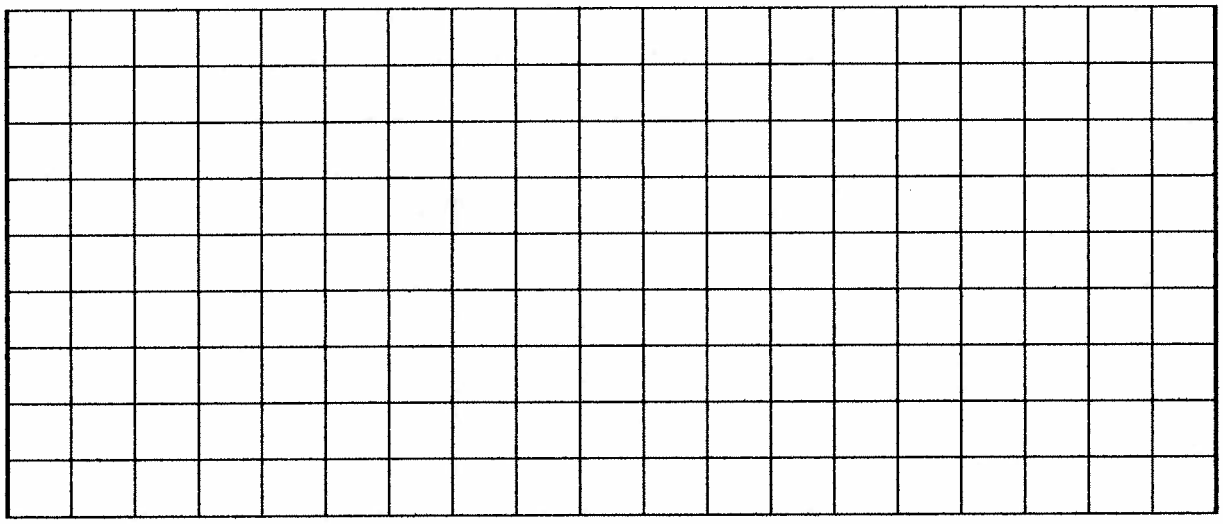
   b. 91 divided by 7 equals _____.

4. Solve. Show your work below. Be sure to include remainders when they have them.

   a. 168 / 8 = _____

   b. 6 * _____ = 192

   c. 872 ÷ 16 = _____



5. Circle your magnitude estimate. Then solve.

a. $6\overline{)49.2}$

0.1s	1s	10s	100s

b. $13\overline{)27.3}$

0.1s	1s	10s	100s

6. Tammy has 245 photographs. She can attach 9 photos on each page of her photo album. How many pages will she need to buy in order to put all of her photos in the album?

a. Which operation(s) will you use to solve this problem? Circle the answer.

Addition Subtraction Multiplication Division

b. What information will you use? _____

c. What is the problem that you will solve? _____

d. Solution: _____

e. What does the remainder represent? _____

f. What did you do about the remainder? Circle the answer.

Ignored it. Reported it as a fraction or decimal. Rounded the answer up.

7. Three friends bought a game for their PlayStation. The total cost was $55, including tax. The friends split the cost evenly. How much did each friend contribute?

a. What is the problem that you will solve? _____

b. Solution: _____

c. What does the remainder represent? _____

d. What did you do about the remainder? Circle the answer.

Ignored it. Reported it as a fraction or decimal. Rounded the answer up.

Name Date Time

Unit 4 Checking Progress

Use a "friendly number" strategy to solve these problems mentally.

1. 84 divided by 6 equals _____.

_____
(friendly parts for 84)

2. 104 divided by 8 equals _____.

_____
(friendly parts for 104)

Solve. Show your work.

3. 126 / 6 = _____

4. 9 * _____ = 243

5. 703 ÷ 14 → _____

6. 482 ÷ 34 → _____

Circle your magnitude estimate. Then solve.

7. $5\overline{)88.5}$

0.1s	1s	10s	100s

8. $14\overline{)2.94}$

0.1s	1s	10s	100s

Name Date Time

Unit 4 Checking Progress (cont.)

In Problems 9 and 10:

- Write a number sentence to represent the number story.
- Use a division algorithm to solve the problem.
- Decide what to do about the remainder.
- Tell why you did what you did about the remainder.

9. Tammy has 130 photographs. She can tape 8 photos onto each page of her photo album. How many pages will she need to tape all of her photos in the album?

Number sentence: _____ Solution: _____ pages

What does the remainder represent? _____

_____

What did you do about the remainder? Circle the answer.

Ignored it. Reported it as a fraction or decimal. Rounded the answer up.

10. For a relay race, the gym teacher divided the class into 4 teams with an equal number of students on each team. There were 30 students in the class. Extra students didn't race. How many members were on each team?

Number sentence: _____ Solution: _____ members

What does the remainder represent? _____

_____

What did you do about the remainder? Circle the answer.

Ignored it. Reported it as a fraction or decimal. Rounded the answer up.

In Problems 11 and 12:

- Find the value of x in the first number sentence.
- Use this value to complete the second number sentence.

11. $x = 100 - 95$; $x^2 =$ _____

12. $x = \frac{1}{2}$ of a dozen; $30 * x =$ _____

13. Write an open sentence you can use to solve the number story below. Then solve the number story.

Four friends rented a car. The total rental cost was $150, including tax. The friends split the cost evenly. How much did each friend contribute?

Number sentence: _____ Solution: $_____

NAME _____

CHAPTER 3 TEST

Divide.

	a	*b*	*c*	*d*
1.	$4\overline{)96}$	$7\overline{)84}$	$3\overline{)79}$	$5\overline{)68}$
2.	$4\overline{)732}$	$5\overline{)175}$	$7\overline{)615}$	$2\overline{)647}$
3.	$8\overline{)1720}$	$4\overline{)5216}$	$4\overline{)1530}$	$3\overline{)6323}$

1.	$12\overline{)72}$	$13\overline{)89}$	$11\overline{)94}$	$17\overline{)68}$
2.	$17\overline{)265}$	$11\overline{)858}$	$31\overline{)961}$	$12\overline{)506}$
3.	$36\overline{)4366}$	$42\overline{)1890}$	$73\overline{)3934}$	$14\overline{)2184}$

Problem Solving

ORDER FORM
6,912 Zanappas

Solve each problem.

1. An order was received for 6,912 zanappas. Machine A can produce the zanappas in 12 hours. At that rate, how many zanappas would be produced each hour?

_____ zanappas would be produced each hour.

2. It would take machine B 24 hours to produce the zanappas needed to fill the order. At that rate, how many zanappas would be produced each hour?

_____ zanappas would be produced each hour.

3. Machine C could produce the zanappas needed to fill the order in 48 hours. At that rate, how many zanappas could be produced each hour?

_____ zanappas could be produced each hour.

4. How many zanappas could be produced if all three machines operated for a period of 8 hours?

_____ zanappas could be produced.

1.	2.
3.	4.

Perfect score: 4 My score: _____

Name Date Time

LESSON 4•8

Open Response

Progress Check 4

Missing Digits

Find digits A and B in the number below so that the following conditions are true. Show all of your work.

- The 5-digit number must be divisible by 4.
- The 5-digit number must be divisible by 9.
- Digit A cannot be the same as Digit B.

1 2 A 3 B

Explain the steps you followed to solve the problem.