Self Assessment

Think about each skill listed below. Assess your own progress by checking
the most appropriate box.

Skills	I can do this on my own and explain how to do it.	I can do this on my own.	I can do this if I get help or look at an example.
1. Find multiples, and use them to rename numbers.			
2. Know and use multiplication facts, related division facts, and extended facts.			
3. Divide using a friendly number strategy with the partial-quotients algorithm.			
4. Divide using an "at least...not more than strategy" with the partial-quotients algorithm.			
5. Make magnitude estimates to correctly place the decimal point in quotients.			
6. Measure and draw line segments to the nearest $\frac{1}{2}$ inch.			
7. Estimate distances using a map scale.			
8. Write an open number sentence for number stories.			
9. Determine what to do with a remainder.			

STUDY LINK 4·8

Written Assessment

Progress
Check 4

Part A

Use the map to answer the questions.

1. Estimate the distance from New Delhi to Mumbai (Bombay).

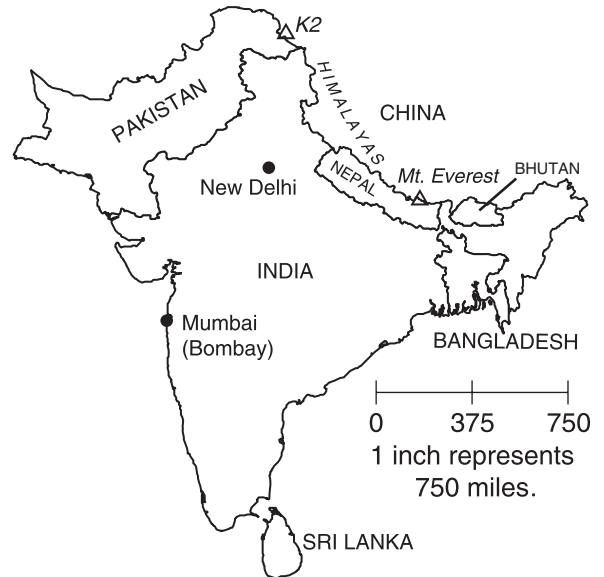   Map distance: _____

   Real distance: _____

2. Estimate the distance from Mumbai (Bombay) to Mt. Everest.

   Map distance: _____

   Real distance: _____

3. About how many miles from the northern tip of Sri Lanka is K2? _____

Map labels: K2, PAKISTAN, HIMALAYAS, CHINA, New Delhi, NEPAL, Mt. Everest, BHUTAN, INDIA, Mumbai (Bombay), BANGLADESH, SRI LANKA

0   375   750
1 inch represents 750 miles.

Use a friendly number strategy to solve these problems mentally.

4. 84 divided by 6 equals _____.

   _____
   (friendly parts for 84)

5. 104 divided by 8 equals _____.

   _____
   (friendly parts for 104)

Solve.

6. $3\overline{)141}$

   Check:

7. $624 \div 8 =$ _____

   Check:

LESSON
4•8   **Written Assessment** *continued*

Make a magnitude estimate. Circle the appropriate box.

8. 59.4 ÷ 3   How I estimated: _____

0.1s	1s	10s	100s

9. 6.428 / 4   How I estimated: _____

0.1s	1s	10s	100s

In Problems 10 and 11:

◆ Find the value of x in the first number sentence.

◆ Use this value to complete the second number sentence.

10. $x = 100 - 95$ $x^2 =$ _____

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

12. Write an open number 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: _____

Solve. Show your work for problems 13–18 on the computation grid.

13. 126 / 6 = _____   **14.** 9 * _____ = 243

Part B

15. 703 ÷ 14 → _____   **16.** 482 ÷ 34 → _____

LESSON 4·8 **Written Assessment** *continued*

Circle your magnitude estimate. Then solve.

17. 5)88.5

0.1s	1s	10s	100s

18. 14)2.94

0.1s	1s	10s	100s

In Problems 19 and 20, write an open sentence to represent the number story and use a division algorithm to solve the problem. Then decide what to do about the remainder and tell why you chose what to do.

19. 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 her photos in the album?

Number sentence: _____

Solution: _____ pages

What does the remainder represent? _____

_____

Circle what you did with the remainder.

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

20. 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? _____

_____

Circle what you did with the remainder.

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

LESSON 4·8 **Open Response**

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.