Chapter 4 Review/Test

Summative Assessment

Use the Chapter Review/Test to assess students' progress in Chapter 4.

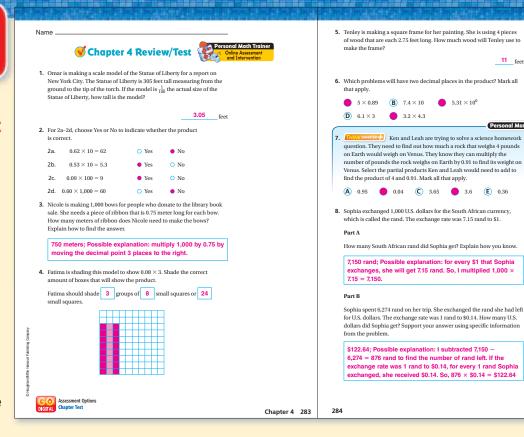
You may want to review with students the essential question for the chapter.

Chapter Essential Question

How can you solve decimal multiplication problems?

Ask the following questions to focus students' thinking:

- How is multiplying with decimals similar to multiplying with whole numbers?
- How can patterns, models, and drawings help you solve decimal multiplication problems?
- How do you know where to place a decimal point in a product?
- How do you know the correct number of decimal places in a product?





Data-Driven Decision Making RtI Chapter 4

Personal Math Trainer

Based on the results of the Chapter Review/Test use the following resources to review skills.

ltem	Lesson	Standard	Content Focus	Personal Math Trainer	Intervene with
1–3	4.1	5.NBT.A.2	Use patterns in the placement of the decimal point to multiply by a power of 10.	5.NBT.2	R —4.1
4	4.2	5.NBT.B.7	Use models to find the product of a decimal and a whole number.	5.NBT.7	R —4.2
5, 7, 8	4.3	5.NBT.B.7	Use place value to multiply a decimal and a whole number.	5.NBT.7	R —4.3
6, 17, 18	4.7	5.NBT.B.7	Use place value to determine the placement of a decimal in a product.	5.NBT.7	R —4.7
9–11	4.4	5.NBT.B.7	Multiply decimals to hundredths by whole numbers.	5.NBT.7	R—4.4
12–14, 16	4.5	5.NBT.B.7	Solve decimal multiplication problems.	5.NBT.7	R —4.5
15	4.6	5.NBT.B.7	Use models to find the product of two decimals to hundredths.	5.NBT.7	R —4.6
19–22	4.8	5.NBT.B.7	Multiply two decimals.	5.NBT.7	R —4.8

Key: R—Reteach (in the Chapter Resources)

9. Trevor is reading a book for a book report. Last week, he read 35 pages of the book. This week, he read 2.5 times as many pages as he read last week How many pages of the book has Trevor read this week? Show your work. Check students' work 87.5 pages 10. Jonah drives his car to and from work. The total length of the trip to and from work is 19.2 miles. In August, Jonah worked 21 days. How many miles in all did Jonah drive to and from work that month? Show your work. Jonah drove 403.2 miles in August. 11. Use the numbers in the boxes to complete the number sentences. A number may be used more than once 8.99 89.9 29 × 31 = **899** 29 × 3.1 = **89.9** 0.29 × 31 = **8.99** 2.9 × 31 = **89.9** 12. GODEEPER Melinda, Zachary, and Heather went to the mall to shop for school supplies. Melinda spent \$14.25 on her supplies. Zachary spent \$2.30 more than Melinda spent, Heather spent 2 times as much money as Zachary spent. How much did Heather spend on school supplies? 33.10

A family of 2 adults and 1 child plan to spend the day at the Baytown Zoo. How much does admission for the family cost? Explain how you found your answer \$39.75; Possible explanation: I will find the cost of the two adult tickets by multiplying 2 \times \$15.75 = \$31.50. Then, I will add the cost of the child's ticket. \$31.50 + \$8.25 = \$39.75Describe another way you could solve the problem. Possible description: I could add the cost of the three tickets. \$15.75 + \$15.75 + \$8.25 = \$39.75What if 2 more tickets for admission are purchased? If the two additional tickets cost \$16.50, determine what type of tickets the family purchases. Explain how you can determine the answer without calculating. Two additional children's tickets are purchased. Possible explanation: Since senior citizen tickets cost about \$10 each, then 2 tickets would cost about \$20, which is too much. Adult tickets cost about \$16 each, so 2 adult tickets would cost about \$32, which is too much, Children's ickets cost about \$8, and 2 tickets would be about \$16 14. At a tailor shop, it costs \$6.79 to shorten a pair of pants and 4 times as ich to mend a dress. Choose the answer that correctly completes the \$19.47 It would cost Lisa \$27.16 to shorten one pair of pants and mend one dress. \$33.95

19. For 19a-19d select True or False for each statement 15. Shade the model to show 0.5×0.3 . Then find the product 19a. The product of 1.5 and 2.8 is 4.2. True False The product of 7.3 and 0.6 is 43.8. 19c. The product of 0.09 and O True False 19d. The product of 0.79 and 1.5 is 1.185. True $0.5 \times 0.3 =$ 0.15 $\textbf{20.} \ \ \textbf{A builder buys 24.5 acres of land to develop a new community of homes}$ 16. Mr. Evans is paid \$9,20 per hour for the first 40 hours he works in a week. He is paid 1.5 times that rate for each hour after that. Last week, Mr. Evans worked 42.25 hours. He says he earned \$388.70 last The builder plans to use 0.25 of the land for a park. How many acres will week. Do you agree? Support your answer I disagree. Possible explanation: the earnings for 40 hours are \$9.20 \times 40 = \$368. \$9.20 \times 1.5 = \$13.80, which is the rate for each hour over 40. \$13.80 \times 2.25 = \$31.05. I added 6.125 acres \$31.05 + \$368 = \$399.05. \$399.05 > \$388.70. He buys a second property that has 0.62 times as many acres as the first property. How many acres of land are in the second property? Show your work. $\textbf{17.} \ \ \text{Explain how an estimate helps you to place the decimal point when}$ 24.5 The second property has 15.190 or 15.19 acres × 0.62 of land. Possible explanation: The estimate, $4 \times 5 = 20$, helps me know that the decimal point should be placed so that the answer is close to 20. 18. On Saturday, Ahmed walks his dog 0.7 mile. On the same day, Latisha walks her dog 0.4 times as far as Ahmed walks his dog. How far does Latisha walk 21. Joaquin lives 0.3 miles from Keith. Layla lives 0.4 as far from Keith as Joaquin. How far does Layla live from Keith? Write an equation to sol her dog on Saturday? 0.28 mile(s) 22. Brianna is getting materials for a chemistry experiment. Her teacher gives her a container that has 0.15 liter of a liquid in it. Brianna needs to use 0.4 of this liquid for the experiment. How much liquid will 0.06 liter Chapter 4 287

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Performance Assessment Task Chapter 4

See the *Chapter Resources* for a Performance Task that assesses students' understanding of the content of this chapter.

For each task, you will find sample student work for each of the response levels in the task scoring rubric.

Performance
Assessment Tasks may be used for portfolios.

Be sure to assign students Exercise 7 in the Personal Math Trainer. It features an animation or video to help students model and solve the problem.