

Name _____

Date _____

1. Solve by drawing disks on a place value chart. Write an equation and express the product in standard form.

a. 3 copies of 2 tenths

b. 5 groups of 2 hundredths

c. 3 times 6 tenths

d. 6 times 4 hundredths

e. 5 times as much as 7 tenths

f. 4 thousandths times 3

2. Draw a model similar to the one pictured below for Parts (b), (c), and (d). Find the sum of the partial products to evaluate each expression.

a. 7×3.12

	3 ones	+	1 tenth	+	2 hundredths	
7	7 x 3 ones	7 x 1 tenth	7 x 2 hundredths			
	_____	+	_____	+	0.14	= _____

b. 6×4.25

- c. 3 copies of 4.65
- d. 4 times as much as 20.075
3. Miles incorrectly gave the product of 7×2.6 as 14.42. Use a place value chart or an area model to help Miles understand his mistake.
4. Mrs. Zamir wants to buy 8 protractors and some erasers for her classroom. She has \$30. If protractors cost \$2.65 each, how much will Mrs. Zamir have left to buy erasers?

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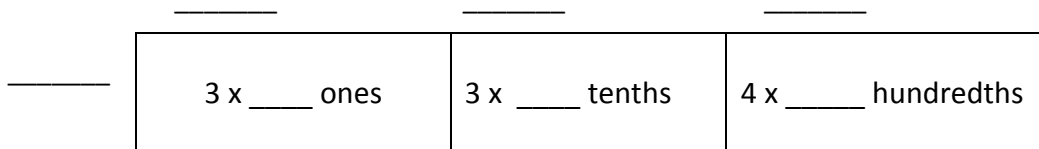
Date _____

1. Solve by drawing disks on a place value chart. Write an equation and express the product in standard form.

4 copies of 3 tenths

2. Complete the area model, and then find the product.

$$3 \times 9.63$$



Name _____

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1. Solve by drawing disks on a place value chart. Write an equation and express the product in standard form.

a. 2 copies of 4 tenths

b. 4 groups of 5 hundredths

b. 4 times 7 tenths

d. 3 times 5 hundredths

c. 9 times as much as 7 tenths

f. 6 thousandths times 8

2. Draw a model similar to the one pictured below. Find the sum of the partial products to evaluate each expression.

a. 4×6.79

	6 ones	+	7 tenths	+	9 hundredths	
4	4 x 6 ones	4 x 7 tenths	4 x 9 hundredths			
	_____	+	_____	+	_____	= _____

- b. 6×7.49 hundredths
- c. 9 copies of 3.65
- d. 3 times 20.175
3. Leanne multiplied 8×4.3 and got 32.24. Is Leanne correct? Use an area model to explain your answer.
4. Anna buys groceries for her family. Hamburger meat is \$3.38 per pound, sweet potatoes are \$0.79 each, and hamburger rolls are \$2.30 a bag. If Anna buys 3 pounds of meat, 5 sweet potatoes, and one bag of hamburger rolls, what will she pay in all for the groceries?

A

Correct _____

Add.

1	$3 + 1 =$		23	$5 + 0.1 =$	
2	$3.5 + 1 =$		24	$5.7 + 0.1 =$	
3	$3.52 + 1 =$		25	$5.73 + 0.1 =$	
4	$0.3 + 0.1 =$		26	$5.736 + 0.1 =$	
5	$0.37 + 0.1 =$		27	$5.736 + 1 =$	
6	$5.37 + 0.1 =$		28	$5.736 + 0.01 =$	
7	$0.03 + 0.01 =$		29	$5.736 + 0.001 =$	
8	$0.83 + 0.01 =$		30	$6.208 + 0.01 =$	
9	$2.83 + 0.01 =$		31	$3 + 0.01 =$	
10	$30 + 10 =$		32	$3.5 + 0.01 =$	
11	$32 + 10 =$		33	$3.58 + 0.01 =$	
12	$32.5 + 10 =$		34	$3.584 + 0.01 =$	
13	$32.58 + 10 =$		35	$3.584 + 0.001 =$	
14	$40.789 + 1 =$		36	$3.584 + 0.1 =$	
15	$4 + 1 =$		37	$3.584 + 1 =$	
16	$4.6 + 1 =$		38	$6.804 + 0.01 =$	
17	$4.62 + 1 =$		39	$8.642 + 0.001 =$	
18	$4.628 + 1 =$		40	$7.65 + 0.001 =$	
19	$4.628 + 0.1 =$		41	$3.987 + 0.1 =$	
20	$4.628 + 0.01 =$		42	$4.279 + 0.001 =$	
21	$4.628 + 0.001 =$		43	$13.579 + 0.01 =$	
22	$27.048 + 0.1 =$		44	$15.491 + 0.01 =$	

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B

Improvement _____

Correct _____

Add.

1	$2 + 1 =$		23	$4 + 0.1 =$	
2	$2.5 + 1 =$		24	$4.7 + 0.1 =$	
3	$2.53 + 1 =$		25	$4.73 + 0.1 =$	
4	$0.2 + 0.1 =$		26	$4.736 + 0.1 =$	
5	$0.27 + 0.1 =$		27	$4.736 + 1 =$	
6	$5.27 + 0.1 =$		28	$4.736 + 0.01 =$	
7	$0.02 + 0.01 =$		29	$4.736 + 0.001 =$	
8	$0.82 + 0.01 =$		30	$5.208 + 0.01 =$	
9	$4.82 + 0.01 =$		31	$2 + 0.01 =$	
10	$20 + 10 =$		32	$2.5 + 0.01 =$	
11	$23 + 10 =$		33	$2.58 + 0.01 =$	
12	$23.5 + 10 =$		34	$2.584 + 0.01 =$	
13	$23.58 + 10 =$		35	$2.584 + 0.001 =$	
14	$30.789 + 1 =$		36	$2.584 + 0.1 =$	
15	$3 + 1 =$		37	$2.584 + 1 =$	
16	$3.6 + 1 =$		38	$5.804 + 0.01 =$	
17	$3.62 + 1 =$		39	$7.642 + 0.001 =$	
18	$3.628 + 1 =$		40	$6.75 + 0.001 =$	
19	$3.628 + 0.1 =$		41	$2.987 + 0.1 =$	
20	$3.628 + 0.01 =$		42	$3.279 + 0.001 =$	
21	$3.628 + 0.001 =$		43	$12.579 + 0.01 =$	
22	$37.048 + 0.1 =$		44	$14.391 + 0.01 =$	

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1. Choose the reasonable product for each expression. Explain your reasoning in the spaces below using words, pictures and numbers.

a. 2.5×4

0.1

1

10

100

b. 3.14×7

2198

219.8

21.98

2.198

c. 8×6.022

4.8176

48.176

481.76

4817.6

d. 9×5.48

493.2

49.32

4.932

.4932

2. Pedro is building a spice rack with 4 shelves that are each 0.55 meter long. At the hardware store, Pedro finds that he can only buy the shelving in whole meter lengths. Exactly how many meters of shelving does Pedro need? Since he can only buy whole number lengths, how many meters of shelving should he buy? Justify your thinking.
3. Marcel rides his bicycle to school and back on Tuesdays and Thursdays. He lives 3.62 kilometers away from school. Marcel's gym teacher wants to know about how many kilometers he bikes in a week. Marcel's math teacher wants to know exactly how many kilometers he bikes in a week. What should Marcel tell each teacher? Show your work.
4. The poetry club had its first bake sale, and they made \$79.35. The club members are planning to have 4 more bake sales. Leslie said, "If we make the same amount at each bake sale, we'll earn \$3,967.50." Peggy said, "No way, Leslie! We'll earn \$396.75 after five bake sales." Use estimation to help Peggy explain why Leslie's reasoning is inaccurate. Show your reasoning using words, numbers and pictures.

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1. Use estimation to choose the correct value for each expression.

a. 5.1×2 0.102 1.02 10.2 102

b. 4×8.93 3.572 35.72 357.2 3572

2. Estimate the answer for 7.13×6 . Explain your reasoning using words, pictures or numbers.

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1. Choose the reasonable product for each expression. Explain your thinking in the spaces below using words, pictures and numbers.

a. 2.1×3 0.63 6.3 63 630

b. 4.27×6 2562 256.2 25.62 2.562

c. 7×6.053 4237.1 423.71 42.371 4.2371

d. 9×4.82 4.338 43.38 433.8 4338

2. YiTing weighs 8.3 kg. Her older brother is 4 times as heavy as her. How much does her older brother's weight in kg?

3. Tim is painting his storage shed. He buys 4 gallons of white paint and 3 gallons of blue paint. If each gallon of white paint costs \$15.72 and each gallon of blue paints is \$21.87, how much will Tim spend in all on paint?
4. Ribbon is sold at 3 yards for \$6.33. Jackie bought 24 yards of ribbon for a project. How much did she pay?