

# Grade 5 Unit 4 Module 2

## Practice Pages for Math at Home

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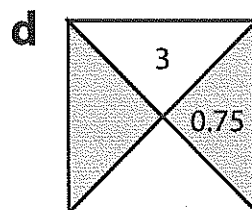
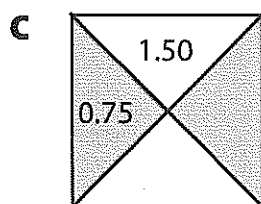
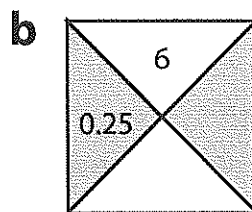
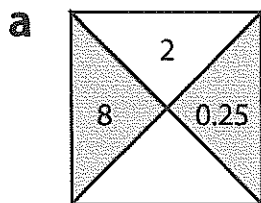
NAME \_\_\_\_\_

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## Find the Product

1 Complete the box challenges.



2 Find the product.

**a**  $\frac{1}{5}$  of 20 =

**b**  $\frac{1}{3}$  of 18 =

**c**  $\frac{4}{5}$  of 20 =

**d**  $\frac{2}{3}$  of 18 =

**e**  $\frac{1}{6}$  of 30 =

**f**  $\frac{1}{15}$  of 60 =

**g**  $\frac{5}{6}$  of 30 =

**h**  $\frac{2}{15}$  of 60 =

3 Brooke and Kaden each sold 15 boxes of cookies for \$2.25 per box. How much money did they collect together? Show your work.

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## Making Cupcakes

- 1 A fancy cupcake costs \$0.85 to make. Fill in the table to show how much it would cost to make 21 fancy cupcakes.

**Note** You don't need to use all the boxes in this table or the other one below. Just use as many as you need and leave the rest.

Number of Fancy Cupcakes	1								
Cost	\$0.85								

It would cost \_\_\_\_\_ to make 21 fancy cupcakes.

- 2 How many fancy cupcakes could you make for \$85.85? Fill in the table to solve the problem.

Number of Fancy Cupcakes	1								
Cost	\$0.85								

You could make \_\_\_\_\_ fancy cupcakes for \$85.85.

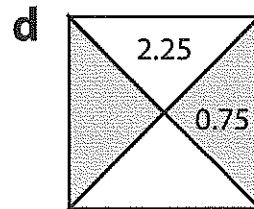
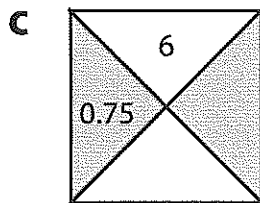
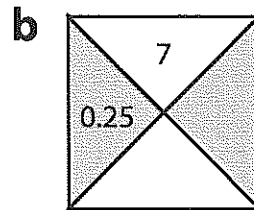
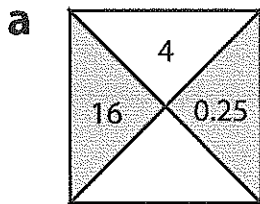
- 3 Find  $47 \times 98$ , using the most efficient strategy you can. Show your work.

- 4 Find  $987 \div 47$ , using the most efficient strategy you can. Show your work.



## Multiplication Strategies page 1 of 2

- 1 The top box shows the *product* of the two middle numbers, and the bottom box shows the *sum* of the two middle numbers. Fill in the missing numbers.



- 2 Find the product.

**a**  $\frac{1}{5}$  of 40 =

**b**  $\frac{1}{3}$  of 21 =

**c**  $\frac{3}{5}$  of 40 =

**d**  $\frac{2}{3}$  of 21 =

**e**  $\frac{1}{6}$  of 24 =

**f**  $\frac{1}{12}$  of 36 =

**g**  $\frac{4}{6}$  of 24 =

**h**  $\frac{4}{12}$  of 36 =

- 3 Matthew bought 16 gallons of gas for \$4.25 per gallon. How much did he spend? Show your work.

(continued on next page)

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**Multiplication Strategies** page 2 of 2

- 4** Tracy bought a dozen of her mother's favorite flowers for \$9.00. How much did each flower cost? Show your thinking.
- 5** Gavin also bought a dozen flowers for his mother, but her favorite flowers cost \$0.35 each. How much did Gavin spend? Show your thinking.
- 6** Xavier earns \$12.50 for each lawn he mows. If he mowed 8 lawns last week, how much money did he earn? Show your work.
- 7** **CHALLENGE** Randi and her sister made balloon animals and sold them for \$0.50 each at a school carnival. They made \$48.00. If Randi made twice as many balloon animals as her sister, how many balloon animals did each girl make? Show your work.

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## Dante's Decision page 1 of 2

Dante wants to spend some of his allowance money, but he is having a hard time deciding what to buy. He loves baseball cards, packs of gum, and bouncy balls. Fill in the ratio tables and answer the questions to help Dante keep track of what he can buy.

- 1** Dante's favorite packs of baseball cards cost \$1.70 each. Fill in the table below to show the cost of different numbers of packs of baseball cards.

<b>Packs of Baseball Cards</b>	1	2	4	8	9	10	15	25
<b>Cost</b>	\$1.70							

- 2** Dante's favorite gum costs \$0.60 a pack. Fill in the table below to show the cost of different numbers of packs of gum.

<b>Packs of Gum</b>	1	2	5	9	10	19	20	25
<b>Cost</b>	\$0.60							

- 3** Bouncy balls come in packages that cost \$3.15 each. Fill in the table below to show the cost of different numbers of packs of bouncy balls.

<b>Packs of Bouncy Balls</b>	1	2	3	6	9	10	12	20
<b>Cost</b>	\$3.15							

- 4** Dante decided to spend only \$20.00 of his allowance and save the rest for later.

**a** Can he buy 12 packs of baseball cards? Why or why not?

**b** Can he buy 30 packs of gum? Why or why not?

**c** How much of the \$20.00 will he still have after he buys 5 packs of bouncy balls?

*(continued on next page)*

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**Dante's Decision** page 2 of 2**5** Write the following decimals in base ten numerals.

**a**  $3,000 + 60 + 0.4 + 0.002$  \_\_\_\_\_

**b** One hundred seventeen and three-thousandths \_\_\_\_\_**6** Write the number names (words) for the following decimals.

**a**  $300 + 0.10 + 0.004$  \_\_\_\_\_

**b** 13.029 \_\_\_\_\_

**7** Write the following decimals in expanded form.

**ex**  $642.835 = (6 \times 100) + (4 \times 10) + (2 \times 1) + (8 \times 0.1) + (3 \times 0.01) + (5 \times 0.001)$

**a** Four thousand fifty-three and two hundred sixty-nine thousandths

**b** 9,615.243

**8** Use  $>$ ,  $=$ , or  $<$  to compare each pair of decimals.

45.01  45.10      5.055  5.550      19.023  19.032      70.0  0.70

**9 CHALLENGE** Abby is going to make tie-dyed T-shirts for her class to wear on a field trip. Each shirt costs \$3.95 and the dye for each shirt costs \$0.50. Abby also needs to buy two boxes of salt to add to the mix for \$4.50 each. If she has collected \$124.70, how many tie-dyed T-shirts can Abby make? Show your work.

# **Answer Keys**



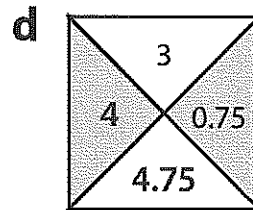
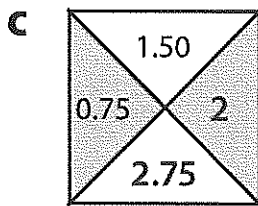
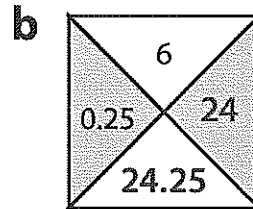
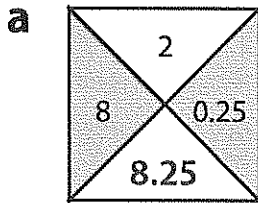
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## Find the Product

1 Complete the box challenges.



2 Find the product.

**a**  $\frac{1}{5}$  of 20 = 4

**b**  $\frac{1}{3}$  of 18 = 6

**c**  $\frac{4}{5}$  of 20 = 16

**d**  $\frac{2}{3}$  of 18 = 12

**e**  $\frac{1}{6}$  of 30 = 5

**f**  $\frac{1}{15}$  of 60 = 4

**g**  $\frac{5}{6}$  of 30 = 25

**h**  $\frac{2}{15}$  of 60 = 8

3 Brooke and Kaden each sold 15 boxes of cookies for \$2.25 per box. How much money did they collect together? Show your work.

**\$67.50; work will vary.**

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## Making Cupcakes

- 1 A fancy cupcake costs \$0.85 to make. Fill in the table to show how much it would cost to make 21 fancy cupcakes. **Students' use of ratio tables will vary. Examples shown.**

**Note** You don't need to use all the boxes in this table or the other one below. Just use as many as you need and leave the rest.

Number of Fancy Cupcakes	1	10	20	21				
Cost	\$0.85	\$8.50	\$17.00	\$17.85				

It would cost \$17.85 to make 21 fancy cupcakes.

- 2 How many fancy cupcakes could you make for \$85.85? Fill in the table to solve the problem.

Number of Fancy Cupcakes	1	10	100	101				
Cost	\$0.85	\$8.50	\$85.00	\$85.85				

You could make 101 fancy cupcakes for \$85.85.

- 3 Find  $47 \times 98$ , using the most efficient strategy you can. Show your work.

**4,606; work will vary. Example**

$$\begin{aligned}
 47 \times 98 &= (47 \times 100) - (47 \times 2) \\
 &= 4700 - 94 \\
 &= 4606
 \end{aligned}$$

- 4 Find  $987 \div 47$ , using the most efficient strategy you can. Show your work.

**21; work will vary. Example**

$$47 \times 21 = 987, \text{ so}$$

$$987 \div 47 = 21$$

1	10	20	21
47	470	940	987

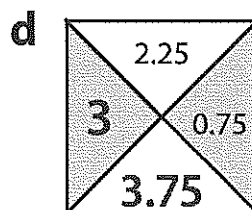
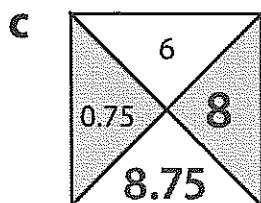
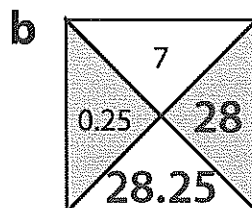
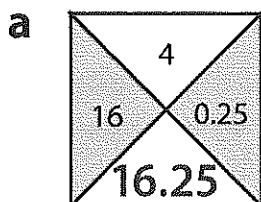
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DATE \_\_\_\_\_



## Multiplication Strategies page 1 of 2

- 1 The top box shows the *product* of the two middle numbers, and the bottom box shows the *sum* of the two middle numbers. Fill in the missing numbers.



- 2 Find the product.

**a**  $\frac{1}{5}$  of 40 = **8**

**b**  $\frac{1}{3}$  of 21 = **7**

**c**  $\frac{3}{5}$  of 40 = **24**

**d**  $\frac{2}{3}$  of 21 = **14**

**e**  $\frac{1}{6}$  of 24 = **4**

**f**  $\frac{1}{12}$  of 36 = **3**

**g**  $\frac{4}{6}$  of 24 = **16**

**h**  $\frac{4}{12}$  of 36 = **12**

- 3 Matthew bought 16 gallons of gas for \$4.25 per gallon. How much did he spend?  
Show your work.

**\$68**

**Work will vary.**

(continued on next page)

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**Multiplication Strategies** page 2 of 2 **Work will vary.**

- 4 Tracy bought a dozen of her mother's favorite flowers for \$9.00. How much did each flower cost? Show your thinking.

**\$0.75**

- 5 Gavin also bought a dozen flowers for his mother, but her favorite flowers cost \$0.35 each. How much did Gavin spend? Show your thinking.

**\$4.20**

- 6 Xavier earns \$12.50 for each lawn he mows. If he mowed 8 lawns last week, how much money did he earn? Show your work.

**\$100**

- 7 **CHALLENGE** Randi and her sister made balloon animals and sold them for \$0.50 each at a school carnival. They made \$48.00. If Randi made twice as many balloon animals as her sister, how many balloon animals did each girl make? Show your work.

**Randi made 64. Her sister made 32.**

NAME \_\_\_\_\_

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## Dante's Decision page 1 of 2

Dante wants to spend some of his allowance money, but he is having a hard time deciding what to buy. He loves baseball cards, packs of gum, and bouncy balls. Fill in the ratio tables and answer the questions to help Dante keep track of what he can buy.

- 1 Dante's favorite packs of baseball cards cost \$1.70 each. Fill in the table below to show the cost of different numbers of packs of baseball cards.

<b>Packs of Baseball Cards</b>	1	2	4	8	9	10	15	25
<b>Cost</b>	\$1.70	\$3.40	\$6.80	\$13.60	\$15.30	\$17	\$25.50	\$42.50

- 2 Dante's favorite gum costs \$0.60 a pack. Fill in the table below to show the cost of different numbers of packs of gum.

<b>Packs of Gum</b>	1	2	5	9	10	19	20	25
<b>Cost</b>	\$0.60	\$1.20	\$3.00	\$5.40	\$6.00	\$11.40	\$12.00	\$15.00

- 3 Bouncy balls come in packages that cost \$3.15 each. Fill in the table below to show the cost of different numbers of packs of bouncy balls.

<b>Packs of Bouncy Balls</b>	1	2	3	6	9	10	12	20
<b>Cost</b>	\$3.15	\$6.30	\$9.45	\$18.90	\$28.35	\$31.50	\$37.80	\$63.00

- 4 Dante decided to spend only \$20.00 of his allowance and save the rest for later.

- a Can he buy 12 packs of baseball cards? Why or why not?

**No. 12 packs costs \$20.40.**

- b Can he buy 30 packs of gum? Why or why not?

**Yes. 30 packs of gum costs \$18.**

- c How much of the \$20.00 will he still have after he buys 5 packs of bouncy balls?

**\$4.25 (\$20 – \$15.75)**

(continued on next page)

NAME \_\_\_\_\_

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**Dante's Decision** page 2 of 2**5** Write the following decimals in base ten numerals.

**a**  $3,000 + 60 + 0.4 + 0.002$  3,060.402

**b** One hundred seventeen and three-thousandths 117.003

**6** Write the number names (words) for the following decimals.

**a**  $300 + 0.10 + 0.004$  three hundred and one hundred four thousandths

**b**  $13.029$  thirteen and twenty-nine thousandths

**7** Write the following decimals in expanded form.

**ex**  $642.835 = (6 \times 100) + (4 \times 10) + (2 \times 1) + (8 \times 0.1) + (3 \times 0.01) + (5 \times 0.001)$

**a** Four thousand fifty-three and two hundred sixty-nine thousandths  
 $(4 \times 1,000) + (5 \times 10) + (3 \times 1) + (2 + 0.1) + (6 \times 0.01) + (9 \times 0.001)$

**b**  $9,615.243 = (9 \times 1,000) + (6 \times 100) + (1 \times 10) + (5 \times 1) + (2 + 0.1) + (4 \times 0.01) + (3 \times 0.001)$

**8** Use  $>$ ,  $=$ , or  $<$  to compare each pair of decimals.

$45.01 < 45.10$      $5.055 < 5.550$      $19.023 < 19.032$      $70.0 > 0.70$

**9 CHALLENGE** Abby is going to make tie-dyed T-shirts for her class to wear on a field trip. Each shirt costs \$3.95 and the dye for each shirt costs \$0.50. Abby also needs to buy two boxes of salt to add to the mix for \$4.50 each. If she has collected \$124.70, how many tie-dyed T-shirts can Abby make? Show your work.**26 shirts. Work will vary. Example:  $(124.70 - 9) \div 4.45$**