Name_____ Date_____ Period_____

LESSON 6-1 · SESSION 2 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Multiplication as Scaling

Builds on Grade 5 · 5.NF.B.5

TODAY'S LESSON	Priya says 3/4 yard cut into 4 pieces makes 3-yard pieces. You will decide if that makes sense.
YOU NEED TO	Tell if multiplying by a fraction makes a number bigger or smaller. **You will use it in Practice Form A, problem 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. Look at the **fraction** you multiply by.
2. **Compare** its top and bottom. A smaller top means less than 1.
3. Less than 1 gives a **smaller** answer. More than 1 gives bigger.

WATCH ME

the steps in action

Is 3/4 × 1/4 bigger or smaller than 3/4?

Step 1 The fraction is 1/4.

Step 2 1 is less than 4, so 1/4 is less than 1.

Step 3 So 3/4 × 1/4 is smaller than 3/4.

Answer **Smaller. (It is 3/16.)**

TRY IT WITH HELP

fill in each step

1. Is 8 × 2/3 bigger or smaller than 8?

Step 1 The fraction is _____.

Step 2 2 is less than _____, so 2/3 is less than 1.

Step 3 So 8 × 2/3 is _____ than 8.

2. Is 6 × 5/4 bigger or smaller than 6?

Step 1 The fraction is _____.

Step 2 5 is _____ than 4, so 5/4 is more than 1.

Step 3 So 6 × 5/4 is _____ than 6.

YOUR TURN

use the steps on your own

3. Is the product bigger or smaller than the first number?

a. 10 × 1/2 _____ **b.** 4 × 3/2 _____ **c.** 9 × 2/3 _____

d. 5 × 7/4 _____ **e.** 1/2 × 1/3 _____ **f.** 12 × 1/6 _____

Divide by a Unit Fraction

Builds on Lesson 6-1 Session 1 · 6.NS.A.1

TODAY'S LESSON	You will find 3/4 ÷ 4 with the same Keep, Change, Flip steps from Session 1.
YOU NEED TO	Divide by a unit fraction with Keep, Change, Flip, like 6 ÷ 1/3. **You will use it in Practice Form A, problems 2 and 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Keep** the first number. Write a whole number over 1.
2. **Change** ÷ to × and flip the second number.
3. **Multiply**. Then simplify.

WATCH ME

the steps in action

Find 6 ÷ 1/3.

Step 1 Keep 6 = 6/1.

Step 2 Change to ×. Flip 1/3 to 3/1.

Step 3 6/1 × 3/1 = 18.

Answer 18

TRY IT WITH HELP

fill in each step

4. Find 5 ÷ 1/4.

Step 1 Keep 5 = _____/1

Step 2 Change to ×. Flip 1/4 to _____/1

Step 3 5 × 4 = _____

5. Find 3 ÷ 1/8.

Step 1 Keep 3 = _____/1

Step 2 Change to ×. Flip 1/8 to _____/1

Step 3 3 × 8 = _____

YOUR TURN

use the steps on your own

6. Divide. Use Keep, Change, Flip.

a. 2 ÷ 1/5 = _____ **b.** 7 ÷ 1/2 = _____ **c.** 4 ÷ 1/6 = _____

d. 9 ÷ 1/3 = _____ **e.** 10 ÷ 1/4 = _____ **f.** 6 ÷ 1/10 = _____

READY CHECK

a problem like the one in today's lesson

7. Find 3/4 ÷ 4. Use Keep, Change, Flip.

A 3 **B** 3/16 **C** 16/3 **D** 1/3

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____