Name_____ Date_____ Period_____

LESSON 2-7 · SESSION 2 · PREREQUISITE PRACTICE A · SKILL 1 OF 2

Multiply by Powers of Ten

Builds on Grade 5 · 5.NBT.A.2

TODAY'S LESSON	You will change 14 ÷ 0.35 into 1,400 ÷ 35 by multiplying both numbers by 100.
YOU NEED TO	Multiply a decimal by 10 or 100, like 0.35 × 100 = 35. **You will use it in Practice Form A, problems 1 and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Count** the zeros in 10 or 100.
2. **Move** the decimal point right that many places.
3. Write **zeros** in any empty places.

WATCH ME

the steps in action

Find 3.1 × 100.

Step 1 100 has 2 zeros.

Step 2 Move the point 2 places right. Only 1 digit is there.

Step 3 Write one zero: 310.

Answer **310**

TRY IT WITH HELP

fill in each step

1. Find 0.35 × 100.

Step 1 100 has _____ zeros.

Step 2 Move the point _____ places right.

Step 3 No empty places. The answer is _____.

2. Find 1.2 × 10.

Step 1 10 has _____ zero.

Step 2 Move the point _____ place right.

Step 3 No empty places. The answer is _____.

YOUR TURN

use the steps on your own

3. Multiply.

a. 0.7 × 10 = _____ **b.** 2.5 × 10 = _____ **c.** 0.25 × 100 = _____

d. 4.6 × 100 = _____ **e.** 0.05 × 100 = _____ **f.** 12.6 × 10 = _____

Divide by Two-Digit Numbers

Builds on Grade 5 · 5.NBT.B.6

TODAY'S LESSON	20.4 ÷ 1.2 becomes 204 ÷ 12. You divide by a two-digit number.
YOU NEED TO	Divide by a two-digit number, like 204 ÷ 12. **You will use it in Practice Form A, problems 5 and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Divide**: how many times does the divisor fit? Write it above.
2. **Multiply** and subtract. Bring down the next digit.
3. **Repeat** until no digits are left.

WATCH ME

the steps in action

Find 204 ÷ 12.

Step 1 12 fits into 20 one time. Write 1.

Step 2 1 × 12 = 12. 20 − 12 = 8. Bring down 4 to make 84.

Step 3 12 fits into 84 seven times. 7 × 12 = 84.

Answer 17

TRY IT WITH HELP

fill in each step

4. Find 156 ÷ 12.

Step 1 12 fits into 15 _____ time.

Step 2 15 − 12 = _____. Bring down 6 to make _____.

Step 3 12 fits into 36 _____ times. The quotient is _____.

5. Find 360 ÷ 12.

Step 1 12 fits into 36 _____ times.

Step 2 36 − 36 = _____. Bring down 0.

Step 3 12 fits into 0 zero times. The quotient is _____.

YOUR TURN

use the steps on your own

6. Divide.

a. 144 ÷ 12 = _____ **b.** 252 ÷ 12 = _____ **c.** 375 ÷ 15 = _____

d. 117 ÷ 13 = _____ **e.** 288 ÷ 16 = _____ **f.** 1400 ÷ 35 = _____

READY CHECK

a problem like the one in today's lesson

7. A store packs 16.8 kg of rice into 1.2-kg bags. How many bags?

A 1.4 **B** 14 **C** 140 **D** 20.16

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