Name_____ Date_____ Period_____

LESSON 2-7 · SESSION 1 · PRACTICE · FORM B

Dividing a Decimal by a Whole Number

Learning target – I can divide a decimal by a whole number and place the decimal point correctly. · 6.NS.B.3

REMEMBER

- Divide like whole numbers. Put the point in the quotient **straight above** the point in the dividend.
- If an amount is left over, **annex a zero** (7.5 = 7.50) and keep dividing: 7.5 ÷ 2 = 3.75.
- **Check:** quotient × divisor = dividend.

WORKED EXAMPLE

A rope 25.2 meters long is cut into 6 equal pieces. How long is each piece?

Step 1 Write 25.2 ÷ 6. Put the quotient's point above the point in 25.2.

Step 2 6 goes into 25 four times, 1 left over. Bring down the 2 to make 12.

Step 3 12 ÷ 6 = 2. Check: 4.2 × 6 = 25.2.

Answer **4.2 meters for each piece**

WORDS **dividend** *(dividendo)* · **divisor** *(divisor)* · **quotient** *(cociente)* · **annex a zero** *(agregar un cero)*

PRACTICE

show your work · label units

1. Find each quotient.

a. 12.6 ÷ 4 = _____ **b.** 9.36 ÷ 8 = _____ **c.** 22.5 ÷ 6 = _____

d. 17.1 ÷ 9 = _____ **e.** 63.36 ÷ 12 = _____ **f.** 4.75 ÷ 5 = _____

2. **Art Supplies.** A club spent $83.70 on 6 identical easels. Then it cut 37.8 meters of ribbon into 4 equal lengths.

a. One easel: $ _____ **b.** One ribbon piece: _____ m

3. **Fence Sections.** An 86.4-meter fence is split into 6 equal sections. How long is one section?

Hint *84 ÷ 6 = 14, so expect about 14.*

Show your work.

Answer_____ m

4. **Stopping Early.** A rope 30.6 meters long is cut into 8 equal pieces. Kofi stops when 2 tenths are left over. What should he do next? Find the exact length.

Hint *Write 30.6 as 30.600 so you can keep dividing.*

Show your work.

Answer_____ m

5. Bottle Cost. A team paid $81.60 for 16 bottles. Ava says each cost $5.01. Is she right? Find the cost.

Hint *Multiply 5.01 × 16 to test Ava's answer.*

Show your work.

Answer_____ dollars

6. Shared Cost. Five friends split a $58.65 bill evenly. How much does each pay?

Show your work.

Answer_____ dollars

7. Two Ways to Split. Two 67.2-meter rolls of wire are cut. One is cut into 7 equal pieces; the other into 14.

Hint *14 is double 7. What happens to each piece?*

a. Piece length for 7 pieces: _____ m for 14 pieces: _____ m

b. How does the second length compare with the first? _____

Show your work.

8. Field Trip Buses. A school pays $731.40 to rent 6 buses for a trip.

a. Find the cost of one bus. _____ dollars

b. Three more buses are added at the same rate. Find the new total. _____ dollars

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Nadia's Work. Dividing 45.6 by 6, Nadia got the digits right but wrote her quotient as 0.76. Explain her mistake and give the correct quotient.

TEST PRACTICE

choose the best answer

10. Find 7.35 ÷ 5.

A 14.7 **B** 0.147 **C** 1.47 **D** 36.75

11. In 15.6 ÷ 4, the decimal point in the quotient goes –

A at the far right

B one place left of the 4

C straight above the point in 15.6

D after the first digit

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

38.25 Z	1.44 Q	5.10 N	9.6 H	1.173 J	14.4 T	11.73 T	5.01 X	121.90 S	3.825 E

#3	#4	#5	#6	#7a	#8a

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