Name_____ Date_____ Period_____

LESSON 8-3 · SESSION 2 · PRACTICE · FORM B

Division Equations

Learning target – I can solve a division equation by multiplying both sides by the same number. · 6.EE.B.7

REMEMBER

- In $n \div 4 = 7$, the variable is the **total** before it was split.
- Multiplication undoes division. **Multiply both sides** by the divisor.
- For positive amounts in more than one group, the total exceeds one share. Check by dividing.

WORKED EXAMPLE

Some cards are shared equally by 4 friends. Each friend gets 7. Solve $n \div 4 = 7$.

Step 1 Multiply both sides by 4: $(n \div 4) \times 4 = 7 \times 4$.

Step 2 Simplify: $n = 28$.

Step 3 Check: $28 \div 4 = 7$.

Answer **There were 28 cards.**

WORDS **divisor** *(divisor)* · **Multiplication Property of Equality** *(propiedad de multiplicación de la igualdad)* · **equal groups** *(grupos iguales)*

PRACTICE

show your work · label units

1. Solve each equation.

a. $k \div 8 = 9$ ___

b. $p \div 5 = 14$ ___

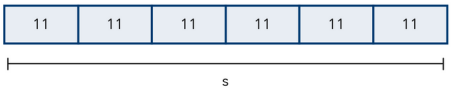
c. $m \div 11 = 6$ ___

d. $n \div 7 = 12$ ___

e. $y \div 4 = 2.5$ ___

f. $w \div 10 = 4.8$ ___

2. **Class Pizza.** A stack of s pizza slices is shared evenly among 6 tables. Each table gets 11 slices.



a. Write a division equation. _____

b. Solve it. _____

c. Check by dividing. _____

3. **Trip Gas Money.** A family split one gas bill evenly among 3 drivers. Each driver paid $31.50. Write and solve an equation for g, the whole bill.

Hint *Whole bill ÷ 3 drivers = one share.*

Show your work.

g =_____

4. **Costume Sashes.** A spool of ribbon is cut evenly into 7 sashes. Each is 18 inches. Solve $n \div 7 = 18$.

Hint *Multiply both sides by 7.*

Show your work.

n =_____

5. **Garden Rows.** A gardener spreads s seeds evenly across 13 rows. Each row gets 15 seeds. Solve $s \div 13 = 15$.

Show your work.

s =_____

6. **Water Jugs.** A crew poured water evenly into 14 jugs. Each jug got 15 liters. Write and solve a division equation for the total liters.

Hint *The total is split into 14 jugs, so undo the split.*

Show your work.

Answer_____ liters

7. **Reading Log.** Malik read the same number of pages each day for 6 days. His log shows 26 pages per day. Write and solve a division equation for his total pages.

Show your work.

Answer_____ pages

8. **Boxes of Tiles.** A warehouse packs t tiles evenly into 16 boxes. Each box holds 35 tiles.

a. Write and solve an equation for the total tiles. _____

b. Four more boxes of the same size arrive. Find the new total. _____

c. How can you check part a? _____

FIND THE ERROR

explain the mistake, then fix it

9. **Kayla's Work.** To solve $m \div 6 = 12$, Kayla divided both sides by 6. She wrote $m = 2$. Explain her mistake. Then solve correctly.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. Solve $n \div 8 = 9$.

A $n = 1$ **B** $n = 17$ **C** $n = 72$ **D** $n = 81$

11. To solve a division equation, you —

A divide both sides by the divisor

B multiply both sides by the divisor

C add the divisor

D subtract the divisor

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

17 Q	210 U	195 D	560 T	28 X	$94.50 R	$10.50 Z	126 O	156 C	66 P

#2b	#3	#4	#5	#6	#7	#8a

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