Name_____ Date_____ Period_____

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

Subtraction Equations

Learning target – I can solve a subtraction equation by adding the same amount to both sides. · 6.EE.B.7

REMEMBER

- **Addition** undoes subtraction. Add back what was taken away.
- Add the same number to **both sides** so the equation stays balanced.
- In $x - 7 = 12$, the answer must be **greater** than 12. Check it.

WORKED EXAMPLE

Solve $p - 7 = 12$.

Step 1 Add 7 to both sides: $p - 7 + 7 = 12 + 7$.

Step 2 Simplify: $p = 19$.

Step 3 Check: $19 - 7 = 12$.

Answer $p = 19$

WORDS **inverse operation** *(operación inversa)* · **Addition Property of Equality** *(propiedad de suma de la igualdad)* · **difference** *(diferencia)*

PRACTICE

show your work · label units

1. Solve each equation.

a. $n - 28 = 15$ ___

b. $p - 7.5 = 3.5$ ___

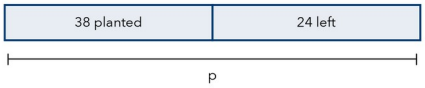
c. $k - 33 = 48$ ___

d. $m - 21 = 34$ ___

e. $r - 4.25 = 2.75$ ___

f. $y - 60 = 25$ ___

2. **School Garden Seeds.** A garden club started with p seed packets. Members planted 38 packets. Now 24 packets are left.



a. Write a subtraction equation. _____

b. Solve it. _____

c. Check your solution. _____

3. **Phone Storage.** A phone held g gigabytes of photos. After 15 gigabytes were deleted, 34 gigabytes were left. Write and solve a subtraction equation.

Hint *Add the deleted gigabytes back to both sides.*

Show your work.

Answer_____ GB

4. Library Shelf. A shelf held b books. Students checked out 42, and 57 remained. Solve $b - 42 = 57$.

Hint *Add 42 to both sides.*

Show your work.

b =_____

5. Tour Bus. A trip is n miles long. After 160 miles, the driver has 75 miles to go. Solve $n - 160 = 75$.

Show your work.

n =_____

6. Film Club Money. A film club started the month with f dollars. It spent $24.25 on snacks and had $30.50 left. Write and solve an equation.

Hint *Add $24.25 to both sides. Line up the decimal points.*

Show your work.

f =_____

7. Apple Market. A market had a pounds of apples. Shoppers bought 136 pounds, and 89 pounds were left. Write and solve a subtraction equation. Check it.

Hint *The answer must be more than 89.*

Show your work.

Answer_____ pounds

8. Library Books. A shelf held b books. After 29 were checked out, 96 remained.

a. Write an equation. _____

b. Solve it. _____

c. Then 40 more books are checked out. Write and solve an equation for r, the books that remain. _____

FIND THE ERROR

explain the mistake, then fix it

9. Ben's Work. To solve $x - 24 = 60$, Ben subtracted 24 from both sides. He wrote $x = 36$. Explain his mistake. Then solve correctly.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. Solve $x - 7 = 19$.

A $x = 12$ **B** $x = 26$ **C** $x = 133$ **D** $x = 7$

11. To solve a subtraction equation, you —

A add the same number to both sides

B subtract the same number again

C divide both sides

D add to one side only

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

$6.25	19	14	49	225	125	99	62	235	$54.75
X	Z	Q	O	N	G	L	S	V	I

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

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