Name_____ Date_____ Period_____

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

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

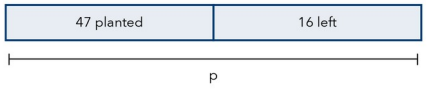
show your work · label units

1. Solve each equation.

a. $n - 35 = 12$ ___ **b.** $p - 9.5 = 4.5$ ___ **c.** $k - 26 = 39$ ___

d. $m - 18 = 27$ ___ **e.** $r - 6.25 = 3.75$ ___ **f.** $y - 50 = 25$ ___

2. **School Garden Seeds.** A garden club started with p seed packets. Members planted 47 packets. Now 16 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 12 gigabytes were deleted, 29 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 38, and 54 remained. Solve $b - 38 = 54$.

Hint *Add 38 to both sides.*

Show your work.

b =_____

5. Tour Bus. A trip is n miles long. After 145 miles, the driver has 89 miles to go. Solve $n - 145 = 89$.

Show your work.

n =_____

6. Film Club Money. A film club started the month with f dollars. It spent $18.50 on snacks and had $31.75 left. Write and solve an equation.

Hint *Add $18.50 to both sides. Line up the decimal points.*

Show your work.

f =_____

7. Apple Market. A market had a pounds of apples. Shoppers bought 128 pounds, and 95 pounds were left. Write and solve a subtraction equation. Check it.

Hint *The answer must be more than 95.*

Show your work.

Answer_____ pounds

8. Library Books. A shelf held b books. After 34 were checked out, 89 remained.

a. Write an equation. _____

b. Solve it. _____

c. Then 45 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. Harper's Work. To solve $k - 19 = 33$, Harper subtracted 19 from both sides. She wrote $k = 14$. Explain her mistake. Then solve correctly.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. Solve $m - 15 = 40$.

A $m = 25$ **B** $m = 55$ **C** $m = 600$ **D** $m = 15$

11. In $n - 12 = 30$, the value of n must be –

A less than 30 **B** equal to 12 **C** greater than 30 **D** equal to 18

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

41 S	223 T	123 E	234 L	92 O	31 Q	63 I	$50.25 A	$13.25 X	17 Z

#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 #___