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4.NBT.B.4 Addition or Subtraction Equations

4.NBT.B.4: Fluently add and subtract multi-digit whole numbers using the standard algorithm.

1. Solve the equations:
   a. h – 16 = 7
   b. 5 + 7 – a = 3
   c. 9 – w + 9 = 13
   d. f + (4 + 1) = 14
   e. 17 + (2 – m) = 10
   f. 3x + 6 = y + 9

Solution:
a.
b.
c.
d.
e.
f.

2. Write an equation for each statement below using a variable. What does the variable represent?
   a. Robert scored 104 points in a first quarter exam. He scored 36 points in Language and 28 points in Science. He scored the remaining points in Math.
   b. Jean had $26 with her. She decided to buy three pairs of slippers. She calculated that she would be left with $5.

Solution:
a.

b.

3. The total of all three numbers in every direction is 15. Write an equation to find each missing variable. Solve for missing numbers.

6	*w*	*z*
y	5	6
5	6	*x*

Solution:

4. Add 5 on both sides of the equation. Are both sides equal? What did you learn?
   a. 10 – 5 = 5
   b. 17 + 3 = 20
   c. 18 – 4 = 14

   If you subtract 5 from both sides of the equation, are both sides still equal?

Solution:
a.

b.

c.

5. If m + 6 = n + 6. Are m and n same? Explain.

Solution:

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Answer Key

4.NBT.B.4: Fluently add and subtract multi-digit whole numbers using the standard algorithm.

1. Solve the equations:
   a. h – 16 = 7
   b. 5 + 7 – a = 3
   c. 9 – w + 9 = 13
   d. f + (4 + 1) = 14
   e. 17 + (2 – m) = 10
   f. 3x + 6 = y + 9

Solution:
a. h = 23
b. a = 9
c. w = 5
d. f = 9
e. m = 9
f. x = 3, y = 6

2. Write an equation for each statement below using a variable. What does the variable represent?
   a. Robert scored 104 points in a first quarter exam. He scored 36 points in Language and 28 points in Science. He scored the remaining points in Math.
   b. Jean had $26 with her. She decided to buy three pairs of slippers. She calculated that she would be left with $5.

Solution:
a. 36 + 28 + m = 104

b. 26 – 3x = 5

3. The total of all three numbers in every direction is 15. Write an equation to find each missing variable. Solve for missing numbers.

6	*w*	*z*
y	5	6
5	6	*x*

Solution:
x = 4
y = 4
w = 4
z = 5

4. Add 5 on both sides of the equation. Are both sides equal? What did you learn?
   a. 10 – 5 = 5
   b. 17 + 3 = 20
   c. 18 – 4 = 14

   If you subtract 5 from both sides of the equation, are both sides still equal?

Solution:
a. Add: 10 = 10
   Subtract: 0 = 0
b. Add: 25 = 25
   Subtract: 15 = 15
c. Add: 19 = 19
   Subtract: 9 = 9

5. If m + 6 = n + 6. Are m and n same? Explain.

Solution:
m and n are equal

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