

5.1 One Step Equations

NOTES

Math 7

Write your
questions here!



1)
Verbal

2)
Verbal

Opposite

Opposite

Solution

Solution

Let's Try Another Way!

3)
What operation is bothering
the variable?

What is the inverse of that operation?

Don't Forget to CHECK IT YO!

BRING IT UP A NOTCH
Solve AND CHECK

4)

5)

YOU TRY!!!

6)

7)

5.1 One Step Equations

PRACTICE

Directions: For each equation, write a verbal translation, the opposite operation, and find the solution.

1) $h + 6 = 8$

Verbal:

Opposite:

Solution:

2) $b - 3 = 5$

Verbal:

Opposite:

Solution:

3) $2n = 6$

Verbal:

Opposite:

Solution:

Directions: Solve and check each equation.

4) $8 = k - 5$

5) $\frac{b}{8} = -3$

6) $16 = -4v$

7) $1.2 = \frac{t}{3}$

8) $5 + m = -8$

9) $-3g = -15$

10) $-6 = -8 + j$

11) $18 = -a$

12) $-5.2 = n - 1.4$

13) $h + 6 = 8$

14) $-8 + k = -8$

15) $-10 = \frac{y}{3}$

Directions: Sully solved the following. Check his solution to see if it is correct. If incorrect, find the correct solution.

<p>16) Sully says $h = 4$</p> $5h = -20$	<p>17) Sully says $n = -4$</p> $0.25n = 8$
---	---

Directions: Brust solved the following equations. He DEFINITELY made some mistakes! Using complete sentences explain his mistake and then find the correct solution.

<p>18)</p> $\begin{array}{r} h + 5 = -4 \\ +4 = +4 \\ \hline h + 9 = 0 \\ h = 9 \end{array}$	<p>19)</p> $\begin{array}{r} 2 + x = -10 \\ +2 = +2 \\ \hline x = -8 \end{array}$
--	---

5.1 One Step Equations

WRAP UP

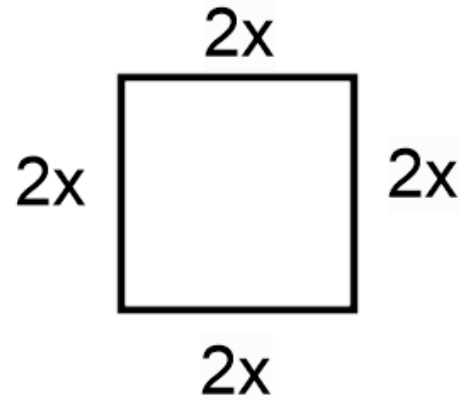
Directions: Write a verbal translation, opposite operation, and find the solution for the equation.	Solve and check each equation.	
<p style="text-align: center;">$4g = 12$</p> <p>1) Verbal:</p> <p>2) Opposite:</p> <p>3) Solution:</p>	<p>4) $8.5 + y = 4.75$</p>	<p>5) $-5x = 45$</p>

6) The perimeter of the square shown below is 64 meters.

Part A

Which equation represents the perimeter of the square?

- (A) $2x = 64$
- (B) $4x = 64$
- (C) $8x = 64$
- (D) $16x = 64$



PART B

Solve the equation.

7) Mr. Brust and Mr. Sullivan were originally competitors when they first met in Oxford, Ohio. They sold hacky sacks in the quad of Miami University. That fall, Mr. Brust sold 32 hacky sacks and made \$168. Mr. Sullivan sold 48 hacky sacks for \$156.

- a) What are unknowns in this situation?
- b) Write an equation for Mr. Brust and another one for Mr. Sullivan that models their situation.
- c) Who sells their hacky sacks for more money? How much more?

EXIT TICKET –

Sully and Brust love playing a game they learned in Ohio, called Cornhole. It is a lot like tossing bean bags at a target far away, but the bags are filled with kernels of corn. Every bag, b , weighs 10.5 ounces. How many bags are there if the total weight is 126 ounces?

Pick all the equations below that could represent the situation.

■ $126b = 10.5$

■ $10.5b = 126$

■ $b = \frac{126}{10.5}$

■ $\frac{10.5}{126} = b$