

Warm Up back of 10

Translate the following verbal expressions.

- 1) 3 less than a number squared

$$n^2 - 3$$

- 2) the difference between a number and 4 divided by 5

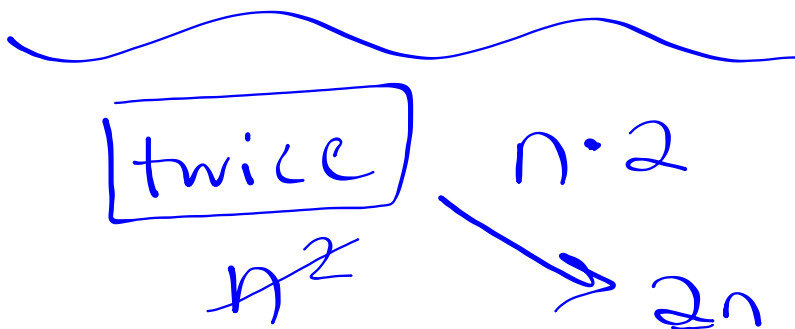
$$\frac{n-4}{5} \quad (n-4) \div 5$$

- 3) the sum of 2 and the product of 3 and a number

$$3n + 2 \quad 2 + 3n$$

- 4) twice a number added to 12

$$2n + 12$$



One Step Equations

Name _____

Homework

Date _____

Solve each equation.

1) $\frac{x}{2} = -10$

 $\{-20\}$

2) $-15 = \frac{v}{20}$

 $\{-300\}$

3) $p - 5 = 4$

 $\{9\}$

4) $2x = -14$

 $\{-7\}$

5) $n + 6 = 10$

 $\{4\}$

6) $-78 = 6m$

 $\{-13\}$

7) $2 = a - 1$

 $\{3\}$

8) $7 = x - 3$

 $\{10\}$

9) $24 = r + 6$

 $\{18\}$

10) $-56 = 8m$

 $\{-7\}$

11) $p - 15 = -7$

 $\{8\}$

12) $-8 = \frac{a}{12}$

 $\{-96\}$

13) $-6 = 6n$

 $\{-1\}$

14) $b - 16 = -26$

 $\{-10\}$

15) $14x = 210$

 $\{15\}$

16) $-31 = n - 17$

 $\{-14\}$

17) $-12b = -36$

 $\{3\}$

18) $\frac{n}{4} = 7$

 $\{28\}$

19) $x - 12 = -28$

 $\{-16\}$

20) $12 = \frac{b}{8}$

 $\{96\}$

Quiz Review

$$2x^2 + 4y - 6$$

- ~ how many terms?
- ~ what is the coefficient of the second term?
- ~ what is the variable in the first term?
- ~ what is the coefficient in the last term?

~ one step equation maze - show work on page 12

~ I will check when done, then you start your quiz

~ after your quiz watch the video for two step equations in Google Classroom - take notes and write examples on page 14

Steps to solving a two step equation:

1~undo the addition or subtraction

2~undo the multiplication or division

Ex:

$$2x - 4 = 6$$

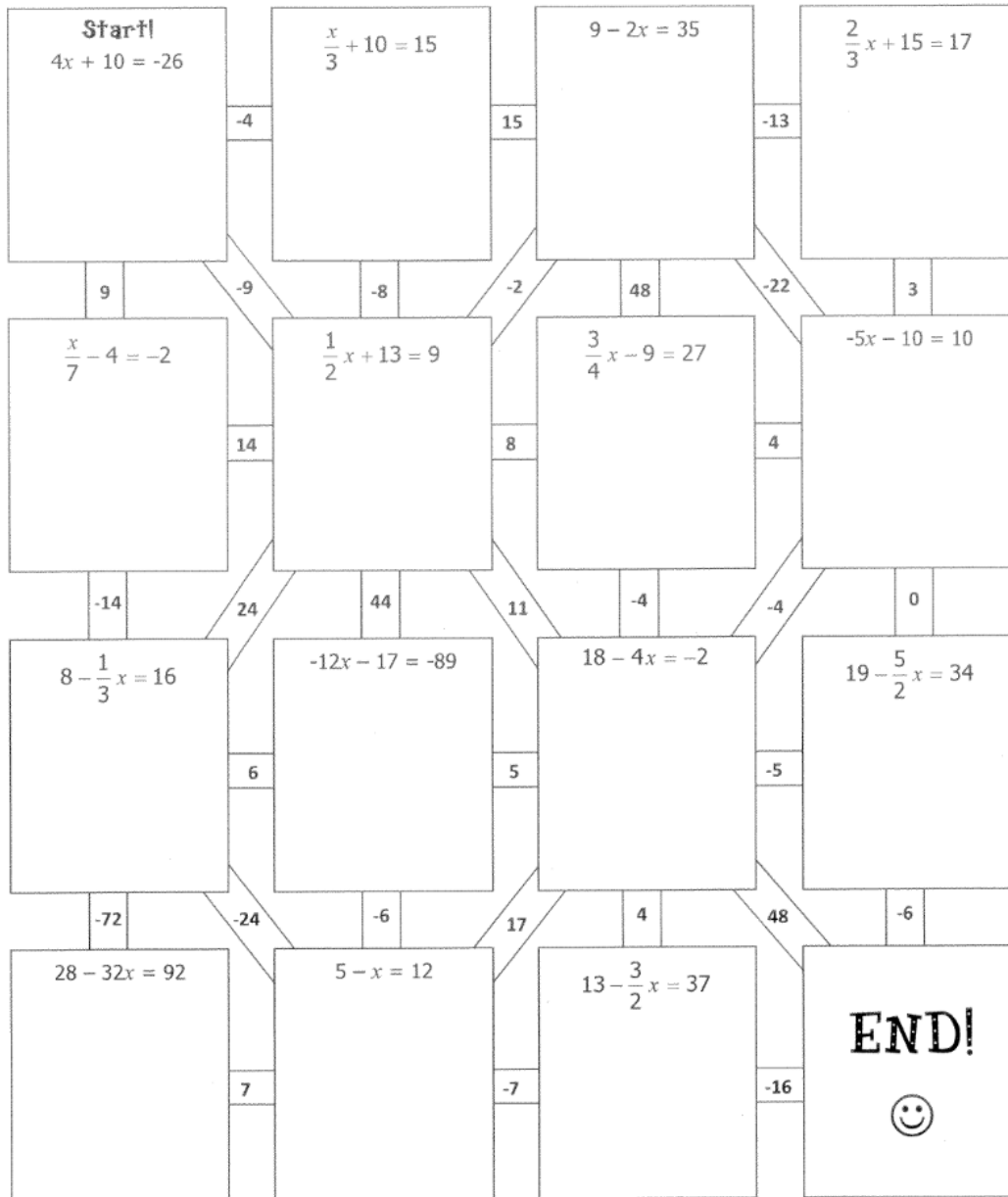
*term
coeff
variable*

Ex: $\frac{x}{3} + 2 = 5$

Name:		Class:	
Topic:		Date:	
Main Ideas/Questions	Notes		
One-Step Equations	1. $m + 12 = 10$	2. $-2 = g - 9$	
	3. $-7y = -91$	4. $\frac{a}{9} = -4$	
Fractions *To "get rid" of a fraction, multiply by the _____!	5. $\frac{2}{3}x = 10$	6. $\frac{4}{9}w = -8$	
	7. $-\frac{6}{5}k = 12$	8. $-\frac{1}{2}m = -9$	
Two-Step Equations	<i>To Solve a Two-Step Equation:</i>		
	1. Undo the Addition/Subtraction (to remove constant term)		
	2. Undo the Multiplication/Division (to remove coefficient)		
	9. $6x + 8 = 50$	10. $2x - 5 = 11$	
	11. $13 = -4x + 9$	12. $7 - 3x = 34$	
13. $\frac{x}{2} - 7 = 9$	14. $11 = \frac{x}{-5} + 8$		
15. $\frac{3}{5}x + 22 = 28$	16. $-\frac{1}{3}x + 1 = -7$		

two-step eQuATION MaZe!

Directions: Use your solutions to navigate through the puzzle. SHOW ALL STEPS!!!!



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Why Did the Chicken Cross the Road?



TO GET TO THE OTHER SIDE, of course. But do you know the answers to THESE two questions?

1. What do you call a chicken crossing the road?

8 lb 10 h -11 -80 8 h -65 12 37 lb 4 -36 7 lb 18 10 h 8 h 4 10 h -36

2. Why did the turkey cross the road?

8 h 10 h 39 9 lb -65 10 h -7 6 -33 -45 6 11 h 32 -96 -30 -36 8 h 15 41 lb -45 4 41 lb 20 6 -36

Solve the equation or problem. Find your solution in the code. Each time it appears, write the exercise letter above it.

E. $5 + 4n = 29$

U. $-8 - 3y = 25$

S. $19 + \frac{x}{2} = 4$

R. $-\frac{1}{5}d - 1 = 12$

M. $90 = 10p - 90$

Y. $-11 = 61 - 6q$

H. $-17 - \frac{u}{3} = -2$

A. $-8 = 4 + \frac{1}{8}b$

I. $-64 = -15m - 4$

V. $12 - 9w = 75$

L. $-13 - \frac{1}{4}h = 7$

W. $\frac{a}{-16} + 101 = 99$

K. Jo is thinking of a number. Four less than 9 times the number is 176. Find Jo's number.

N. Mo is thinking of a number. Eleven more than one third of the number is -1. Find Mo's number.

P. A table and 8 chairs together weigh 97 lb. If the table weighs 25 lb, how much does each chair weigh?

C. Three desks and a bookcase together weigh 157 lb. The bookcase weighs 34 lb. How much does each desk weigh?

T. Mr. Piper's plumbing needed repairs. The plumber charged \$98 for parts plus \$45 per hour for labor. If the bill totaled \$458, how many hours of labor were required?

O. Oshgosh would like to buy a new pair of skates for \$115. So far he has saved \$40. If he earns \$7.50 per hour, how many hours must he work until he can buy the skates?

