Name:		Period:	_Date:				
An Introduction to Equations Assignment							
Tell whether each equation is true, false, o	or open. Explain.						
1. $4t + 6 = 10$	2. $14 - 7 = 27 - $	21 3.	-11 + 4 = -7 + 15				
Find the solution of each equation.							
4. $-8x + 4 = 12$	5. $7 + (-5x) = -$	- 33 6.	4x = 21 + x				
Use a table to find the solution of each equation $5x - 11 = 4$		9.	3x - 2 = -8				
Use a table to find two consecutive intege							
10. $14x - 66 = 40$	11. $3x + 4 = 36$	12.	7x + 8 = 68				
Find the solution of each equation using a table. If the solution lies between two consecutive integers, identify those							
integers.							

13.	2x + 13 = 24	14.	x - 8 = 25
15.	6x - 8 = 31	16.	19 + 2x = 31

Write an equation for each sentence.

- 17. The ratio of nine and a number y is equal to the square of a number x.
- 18. A number *x* more than seven is equal to the product of a number *y* and twenty.
- 19. The product of five and eight is equal to the product of twenty and a number *y*.
- 20. The sum of a number y and fourteen is negative six.

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Name:	Period:	Date:
An Introduction to	Equations Assignment	
ANSWER	•	
Tell whether each equation is true,	false, or open. Explain.	
1. $4t + 6 = 10$	2. $14 - 7 = 27 - 21$	3. $-11+4 = -7+15$
variable <i>t</i> OPEN	<mark>7 = 7</mark> TRUE	<mark>−7 ≠ 8</mark> FALSE
Find the solution of each equation. 4. $-8x + 4 = 12$	5. $7 + (-5x) = -33$	6. $4x = 21 + x$
-8x + 4 = 12	7 + (-5x) = -33	4x = 21 + x
-8x = 12 - 4	(-5x) = -33 - 7	4x - x = 21
-8x = 8 $x = -1$	-5x = -40 $x = 8$	3x = 21 $x = 7$
Use a table to find the solution of e	ach equation.	
7. $5x - 11 = 4$	8. $7x - 4 = 38$	9. $3x - 2 = -8$

x	= 5x - 11	x	=7x-4	x	= 3x - 2
2	= 5(2) - 11	4	= 7(4) - 4	-1	= 3(-1) - 2
	= 10 - 11		= 28 - 4		= -3 - 2
	= -1		= 24		= -5
3	= 5(3) - 11	5	= 7(5) - 4	-2	= 3(-2) - 2
	= 15 - 11		= 35 - 4		= -6 - 2
	= 4		= 31		<mark>= -8</mark>
4	= 5(4) - 11	6	= 7(6) - 4	-3	= 3(-3) - 2
	= 20 - 11		= 42 - 4		= -9 - 2
	= 9		<mark>= 38</mark>		= -11
	x = 3	<mark>x</mark> :	<mark>= 6</mark>		x = -2

Use a table to find two consecutive integers between which the solution lies. 10. 14x - 66 = 40 11. 3x + 4 = 36

•	14x - 66	5 = 40	11. $3x +$	- 4 = 36		12.	7x + 8 =	68
	x	= 14x - 66	х	¢ =	= 3x + 4		x	= 7x + 8
	7	= 14(7) - 66	1	0 =	3(10) + 4		8	= 7(8) + 8
		= 98 - 66		=	= 30 + 4			= 56 + 8
		<mark>= 32</mark>			<mark>= 34</mark>			<mark>= 64</mark>
	8	= 14(8) - 66	1	1 =	3(11) + 4		9	= 7(9) + 8
		= 112 - 66		=	= 33 + 4			= 63 + 8
		<mark>= 46</mark>			<mark>= 37</mark>			<mark>= 71</mark>
	9	= 14(9) - 66	1	2 =	3(12) + 4		10	= 7(10) + 8
		= 126 - 66		=	= 36 + 4			= 70 + 8
		= 60			= 40			= 78
	7	<mark>' < x < 8</mark>		<mark>10 < x</mark>	<mark>< 11</mark>		<mark>8</mark>	<mark>< x < 9</mark>

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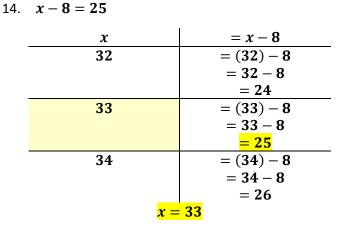
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Name:

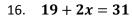
An Introduction to Equations Assignment

Find the solution of each equation using a table. If the solution lies between two consecutive integers, identify those integers.

- 13. 2x + 13 = 24
 - = 2x + 135 = 2(5) + 13= 10 + 13<mark>= 23</mark> = 2(6) + 136 = 12 + 13<mark>= 25</mark> 7 = 2(7) + 13= 14 + 13= 27 5 < x < 6



15. 6x - 8 = 31



y + 14 = -6

<i>x</i>	= 6x - 8	<i>x</i>	= 19 + 2x
6	= 6(6) - 8	5	= 19 + 2(5)
	= 36 - 8		= 19 + 10
	<mark>= 28</mark>		= 29
7	= 6(7) - 8	6	= 19 + 2(6)
	= 42 - 8		= 19 + 12
	<mark>= 34</mark>		<mark>= 31</mark>
8	= 6(8) - 8	7	= 19 + 2(7)
	= 48 - 8		= 19 + 14
	= 40		= 33
<mark>6 < :</mark>	<mark>x < 7</mark>	<mark>x</mark> =	<mark>= 6</mark>

Write an equation for each sentence.

- ^{17.} The ratio of nine and a number y is equal to the square of a number x. $\frac{9}{y} = x^2$
- 18. A number x more than seven is equal to the product of a number y and twenty. x + 7 = 20y
- 19. The product of five and eight is equal to the product of twenty and a number y. 5(8) = 20y
- 20. The sum of a number y and fourteen is negative six.

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