

Math 6 - Unit 4: One-Step Equations and Inequalities

Name: _____

Get a Clue (Solving Equations)

Class Period: 1 2 3 4 Date: _____

Solve each problem. Show **ALL** work and **CIRCLE** your answers. Use your answers and the answer table to remove options and figure out Who? Where? and What?

1) $\frac{x}{12} = 12$	2) $m + 1 = 2.2$	3) $p - 12 = 18$
4) $\frac{n}{3} = 1.5$	5) $x + 23 = 30$	6) $20 = 4x$
7) $x + 0.5 = 4.5$	8) $75 + x = 100$	9) $16x = 32$
10) $x - 8 = 19$	11) $x \div 3 = 4$	12) $10x = 1000$

13) $k + 0.5 = 1.6$	14) $x - 3 = 0$	15) $\frac{x}{10} = 12$
16) $5x = 100$	17) $10 + x = 21$	18) $2x = 16.4$
19) $x + \frac{2}{3} = 3$	20) $\frac{x}{18} = 3$	21) $\frac{1}{7}x = 12$

	Who?	Where?	What?
<p><i>Find your answers in the table to the right and cross out the box containing the answer.</i></p> <p><i>When you are done circle the person, place or thing that is left over in each column to solve the mystery.</i></p> 	Jughead 25	Riverdale High 100	Cell Phone 5
	Archie 1.1	Archie's House 4.5	Football 3
	Betty 84	Sweetwater River 12	Crown 4.7
	Veronica $\frac{1}{3}$	Pops Chock'lit Shoppe 20	Gargoyle 30
	Football Field 120	Betty's House 54	Spider Pin 4
	Reggie 7	Football Field 120	Bulldog 8.2
	Toni 2	Twilight Drive-In $\frac{12}{7} = 1\frac{5}{7}$	Water Polo Ball 27
	Sweet Pea 11	Thornhill Mansion 1.2	Newspaper $\frac{7}{3} = 2\frac{1}{3}$

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ANSWER KEY

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Solve each problem. Show ALL work and CIRCLE your answers. Use your answers and the answer table to remove options and figure out Who? Where? and What?

1) $\frac{x}{12} = 12$ x = 144	2) $m + 1 = 2.2$ m = 1.2	3) $p - 12 = 18$ p = 30
4) $\frac{n}{3} = 1.5$ n = 4.5	5) $x + 23 = 30$ x = 7	6) $20 = 4x$ x = 5
7) $x + 0.5 = 4.5$ x = 4	8) $75 + x = 100$ x = 25	9) $16x = 32$ x = 2
10) $x - 8 = 19$ x = 27	11) $x \div 3 = 4$ x = 12	12) $10x = 1000$ x = 100

13) $k + 0.5 = 1.6$ $k = 1.1$	14) $x - 3 = 0$ $x = 3$	15) $\frac{x}{10} = 12$ $x = 120$
16) $5x = 100$ $x = 20$	17) $10 + x = 21$ $x = 11$	18) $2x = 16.4$ $x = 8.2$
19) $x + \frac{2}{3} = 3$ $x = \frac{7}{3} = 2\frac{1}{3}$	20) $\frac{x}{18} = 3$ $x = 54$	21) $\frac{1}{7}x = 12$ $x = 84$

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