Algebra - Chp 3 Word Problems	Name:
Define a variable, write an equation, and solv	•
1) Twenty-three minus a number is 42. Fir	nd the number.
2) A number increased by 5 is equal to 34.	Find the number.
3) What number decreased by 45 is -78?	
4) The difference of a number and -23 is 3	5. Find the number.
5) A number increased by -45 is 77. Find t	
6) The sum of a number and -35 is 98. Find	i the number.
7) Six times a number is -96. Find the mim	ber,
8) Negative twelve times a number is -156.	What is the number?
9) One fourth of a number is -16.325. What	
10) Four thirds of a number is 4.82. What is	the number?
11) Seven eighths of a number is 14. What is	the number?
12) Twelve decreased by twice a number is -	7. What is the number?
13) One half of a number increased by 16 is	four less than two thirds of the number. Find the number.
14) Find two consecutive integers whose sum	is -3 I.
15) Find three consecutive odd integers whos	e sum is 21.
16) Twenty-nine is 13 added to 4 times a num	iber, Find the number.
17) Find three consecutive integers whose sur	
18) Find four consecutive integers whose sum	
19) Find two consecutive odd integers whose	
	integers is 13 less than three times the lesser. Find the
integers	
21) Three times the greatest of three consecuti	ve even integers exceeds twice the least by 38. Find the
integers.	
22) One fifth of a number plus five times the	hat number is equal to seven times the number less
18. Find the number.	
23) The difference of two numbers is 12. To	wo fifths of the greater number is six more than
one third of the lesser number. Find bo	
	of a triangle are given as $6x^{\circ}$, $(x-3)^{\circ}$, and $(3x+7)^{\circ}$
What are the measures of each angle?	$S_{x} = S_{x} = S_{x$
25) One of the congruent angles of an isosc	eles triangle measures 37°. Find the measures of
the other angles.	The measures of
26) Find the measure of an angle that is 30	less that its supplement.

27) One of the angles of a triangle measures 53°. Another angle measures 37°.	What is the
measure of the third angle?	
28) One of two complementary angles measures 30 more than three times the omeasure of each angle.	other. Find the
29) Find the measure of an angle that is one-half the measure of its supplement	
30) The measures of the angles of a triangle are given as x° , $(3x)^{\circ}$, and $(4x)^{\circ}$. We have	
measures of each angle?	ALLO DELO
31) Twice a number increased by 12 is equal to 31 less than three times the number.	nber. Find the
32) Eight minus two multiplied by a number is equal to the number plus 17. Fi	nd the
number.	ixe are
33) Twice the greater of two consecutive odd integers is 13 less than three times Find the integers.	s the lesser.
34) The perimeter of a rectangle is 24 inches. Find the dimensions if its length is greater than its width.	s 3 inches
35) Find two consecutive odd integers whose sum is 116.	
36) Find two consecutive even integers whose sum is 126.	
(7) Find three consecutive odd integers whose sum is 117.	
88) Find two consecutive even integers whose sum is 217.	*
(9) Find four consecutive odd integers whose sum is 8.	
0) Find three consecutive even integers whose sum is 396.	,
1) An angle measures 15° more than its complement. What are the measures of angles?	f the two
2) One of the congruent angles of an isosceles triangle measure 51°. Find the me	easures of
the other angles.	
3) One of the angles of a triangle measures 35°. Another angle measures 108°. W	What is the
measure of the third angle?	
4) One of the two supplementary angles measures 30° more than twice the other	. Find the
measure of each angle.	
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