

SOLVING TWO-STEP EQUATIONS

1.	lf	$\frac{1}{2}x - 40 = 223$, find the value of x.
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2. If 21 = -3x + 6, find the value of 2x + 5.

Match each phrase with a corresponding variable expression.

7 less than a number

A. 2n + 7

____A number decreased by 11

B. 4(n + 7)

75% of a number

C. $7 + \frac{n}{8}$

____Ten times the difference of a number and 7

D. n – 7

7 more than twice a number

E. n – 11

____7 plus the quotient of a number and 8

F. n - .07n

Four times the sum of a number and 7

G. 10(n-7)

____A number decreased by 7%

H. 0.75n

Write an equation for each situation, and then solve.

1) Six more than three times a number is negative thirty-six.

2) Twelve is sixteen less than four percent of a number.

Equation: _____

Equation: _____

3) A moving company charges \$1200 for the supplies needed to pack up a small house and an additional \$90 per hour to do the loading and moving. If the cost of moving is \$1740 how many hours did the moving company need to move the small house?
Equation:
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4) Kata'a English toot grade was 27 paints loop then twice the grade on her Cainnes toot. If Kata
4) Kate's English test grade was 37 points less than twice the grade on her Science test. If Kate made an 85 on her English test, write an equation that could be used to find s, the grade on her Science test. Then solve.
Equation:
5) Kimberly had a coupon for \$15 off the purchase of one item. She decided to buy a pair of jeans
that was on sale for $\frac{2}{3}$ of their original price. After using the coupon Kimberly only paid \$10 for the
pair of jeans. What was the original price of the jeans?
Equation: