

PRACTICE TEST 13 ALGEBRA Solving Multi-Step Equations ANSWERS

NAME _____

Place your answer by darkling in the correct circle for each problem.

Hint: Instead of multiplying the number in parentheses divide both sides

<p>A. $-144 = 9(9x + 8)$</p> $\begin{aligned} -16 &= 9x + 2 \\ -18 &= 9x \\ -2 &= x \end{aligned}$	<p>G. $4(-16x + 4) = 672$</p> $\begin{aligned} -16x + 40 &= 168 \\ -16x &= 128 \\ X &= -8 \end{aligned}$
<p>B. $6(-5x + 30) = 450$</p> $\begin{aligned} -5x + 30 &= 75 \\ -5x &= 45 \\ x &= -9 \end{aligned}$	<p>H. $-10(22x - 13) = 310$</p> $\begin{aligned} 22x - 13 &= 31 \\ 22x &= 44 \\ X &= 2 \end{aligned}$
<p>C. $4(6x + 30) = 360$</p> $\begin{aligned} 6x + 30 &= 90 \\ 6x &= 60 \\ X &= 10 \end{aligned}$	<p>I. $3(55x - 150) = 375$</p> $\begin{aligned} 55x - 150 &= 125 \\ 55x &= 275 \\ X &= 5 \end{aligned}$
<p>J. $8(-4x + 29) = 616$</p> $\begin{aligned} -4x + 29 &= 77 \\ -4x &= 48 \\ X &= -12 \end{aligned}$	<p>J. $-10(-8x + 10) = 300$</p> $\begin{aligned} -8x + 10 &= -30 \\ -8x &= -40 \\ X &= 5 \end{aligned}$
<p>K. $3(5x + 56) = 498$</p> $\begin{aligned} 5x + 56 &= 166 \\ 5x &= 110 \\ X &= 22 \end{aligned}$	<p>L. $-5(-3x + 2) = -70$</p> $\begin{aligned} -3x + 2 &= 14 \\ -3x &= 12 \\ X &= -4 \end{aligned}$

X = -2
 X = -9
 X = 2

x = -8
 x = 8
 x = 16

x = 45
 x = -9
 x = 9

X = -2
 X = 2
 X = 22

X = 6
 X = -10
 X = 10

X = 10
 X = -5
 X = 5

X = 12
 X = -12
 X = -24

X = 10
 X = 5
 X = -5

X = 55
 X = -22
 X = 22

X = -4
 X = 4
 X = -3