

Name: \_\_\_\_\_  
 Int. Alg. H - Period: \_\_\_\_\_ (2<sup>nd</sup> Qtr)

Date: Jan. 16  
 Ms. Nhotsoubanh

**Activity: Think Pair Share Systems by Substitution**

**DID YOU HEAR ABOUT the antelope who was getting dressed when he was trampled by a herd of buffalo?**

<b>Well,</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>

Solve each system of equations by the substitution method. Write the word next to the correct answer in the box containing the exercise number.

**1.**  $y = 3x$   
 $5x + 2y = 44$

**2.**  $x = 5y - 1$   
 $x + 2y = 13$

**3.**  $y = 2x + 7$   
 $3x - y = -9$

**4.**  $-2x + 3y = 11$   
 $x = 4y - 3$

**5.**  $y = 6x - 5$   
 $y = -x + 9$

**6.**  $-3x + y = 7$   
 $5x + 2y = 3$

**7.**  $x - y = 11$   
 $3x + 10y = -6$

**8.**  $-4x + y = 4$   
 $2x + 2y = 13$

**9.**  $x + y = 1$   
 $5x - 4y = -7$

**10.**  $-5x + 3y = 11$   
 $x - 2y = 2$

**11.**  $x + 9y = -1$   
 $2x + 4y = 5$

**12.**  $-5x + y = 35$   
 $3x + 2y = -21$

**13.** A math test is worth 100 points and has 30 problems. Each problem is worth either 3 points or 4 points. How many 4-point problems are there?

$(-2, 2)$  OFTEN

$(\frac{1}{2}, -3)$  RANGE

$(9, 2)$  FAR

$(-7, 0)$  STAMPED

$(2, 7)$  KNOW

$(-\frac{1}{3}, \frac{4}{3})$  FIRST

$(4, 12)$  AS

$(-1, -3)$  HOME

$(8, -3)$  WAS

$(\frac{7}{2}, -\frac{1}{2})$  DRESSED

14 WESTERN

$(-7, -1)$  WE

$(-\frac{1}{3}, -1)$  BIGGEST

$(-1, 4)$  THIS

10 ANTELOPE

$(-4, -3)$  SELF

$(-2, 3)$  AS

$(2, 1)$  COWBOYS

$(\frac{1}{2}, 6)$  THE

$(-7, -\frac{1}{2})$  DEFENSE