

Name:

Class:

# Linear Simultaneous Equations

1: Solve the following:

a)  $9v + 8u = 91$   
 $v + 8u = 67$

b)  $6h + 4n = 80$   
 $9h - 4n = 70$

c)  $7x + 6r = 124$   
 $-7x + 6r = -16$

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d)  $8f + t = 26$   
 $8f + 8t = 96$

e)  $2q + 5e = 32$   
 $-2q + 4e = 4$

f)  $2y + 8a = 78$   
 $-8y - 8a = -120$

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2: Solve the following:

a)  $6k + 9b = -9$   
 $-10k + 3b = -3$

b)  $-4w + 4z = 0$   
 $8w - 2z = -60$

c)  $8j - 3p = -2$   
 $-4j - 6p = -44$

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d)  $6s + 2m = 58$   
 $s - m = 3$

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e)  $c + 5g = 37$   
 $7c - 10g = -146$

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f)  $6y + 7n = -50$   
 $-2y + 3n = 6$

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3: Solve the following:

a)  $4u + 4v = -16$   
 $-5u + 7v = 8$

b)  $2x - 5h = 17$   
 $5x - 7h = 4$

c)  $4j + 5q = 11$   
 $-5j - 6q = -12$

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d)  $-8k + 2z = -56$   
 $-9k + 3z = -66$

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e)  $-3w + 5r = -26$   
 $-5w + 6r = -20$

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f)  $-3b + 3p = 36$   
 $-10b + 4p = 108$

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# Answers: Linear Simultaneous Equations

1: a)  $v = 3, u = 8$

b)  $h = 10, n = 5$

c)  $x = 10, r = 9$

d)  $f = 2, t = 10$

e)  $q = 6, e = 4$

f)  $y = 7, a = 8$

2: a)  $k = 0, b = -1$

b)  $w = -10, z = -10$

c)  $j = 2, p = 6$

d)  $s = 8, m = 5$

e)  $c = -8, g = 9$

f)  $y = -6, n = -2$

3: a)  $u = -3, v = -1$

b)  $x = -9, h = -7$

c)  $j = -6, q = 7$

d)  $k = 6, z = -4$

e)  $w = -8, r = -10$

f)  $b = -10, p = 2$