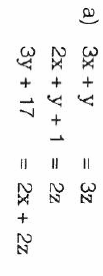
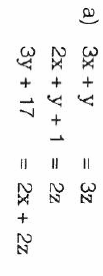
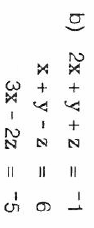
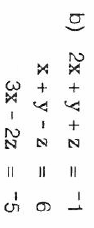
**Distribution Assignment 1 (Simultaneous) Distribution Assignment 1 (Simultaneous)**

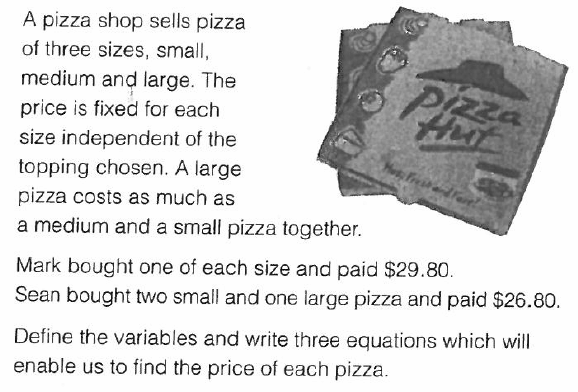
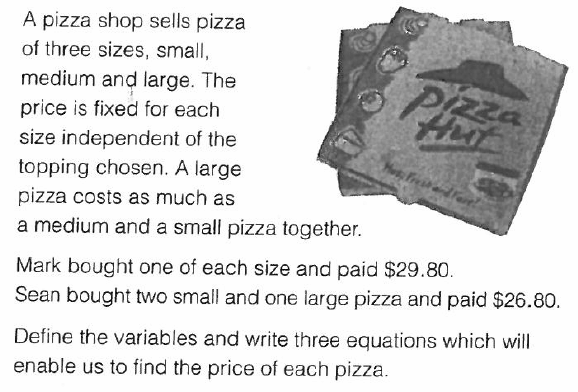
**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1)**

**1)**

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**2)**

**2)**

**Distribution Assignment 2 (Simultaneous)**

**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3)**

**The following set of equations does not have a unique solution.**

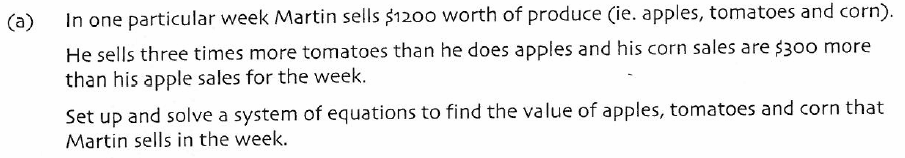
**x + 2y + z = 6 x + 2y – z = 6 x + 3y – z = 4**

**1)**

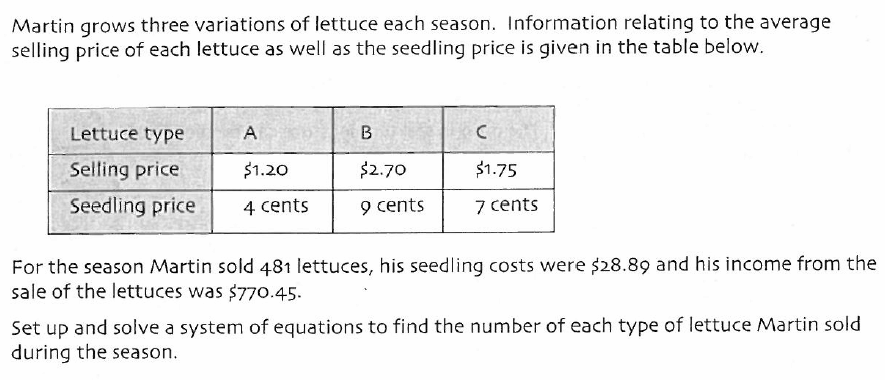
**2)**

**x – y = 2 2x – y + 3z = – 13 Give geometric description of how x + 2y + z = 2**

**x – y + z = 0 3x – 2 y + 3z = – 16 these three planes relate to each other. 3x + 7y + z = 9**

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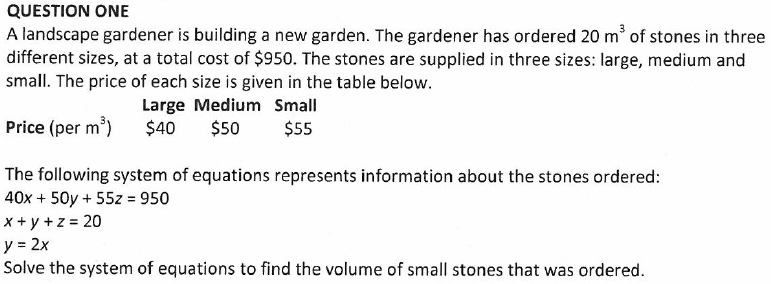
**4)**

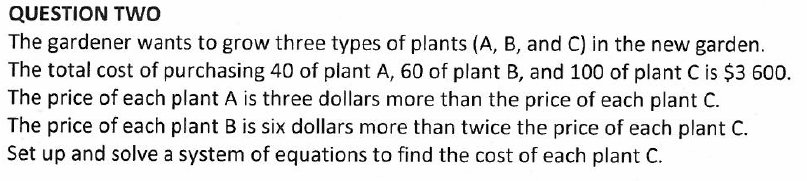
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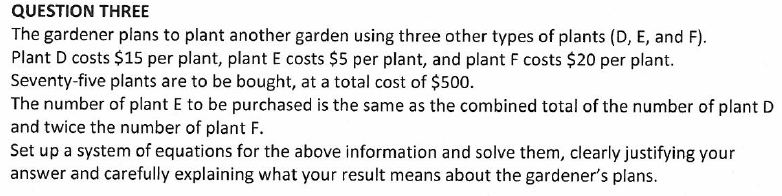
**5)**

**Distribution Assignment 3 (Simultaneous)**

**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

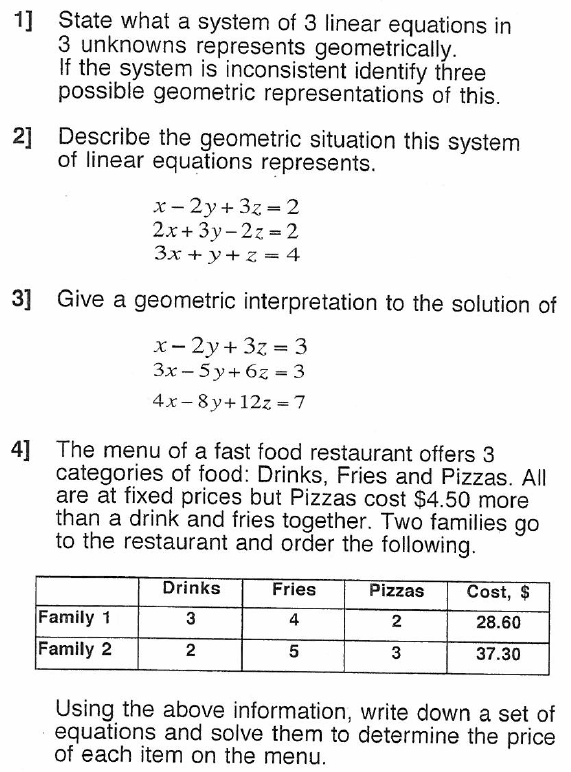
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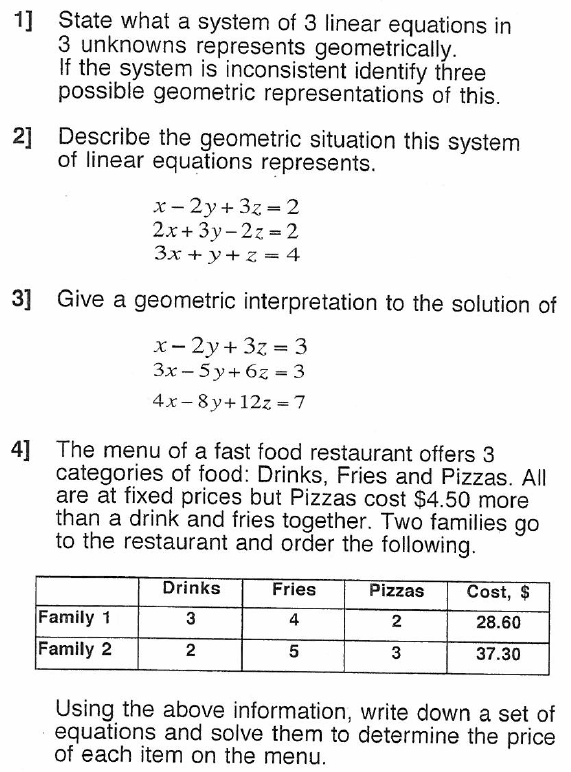
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**Distribution Assignment 4 (Simultaneous) Distribution Assignment 4 (Simultaneous)**

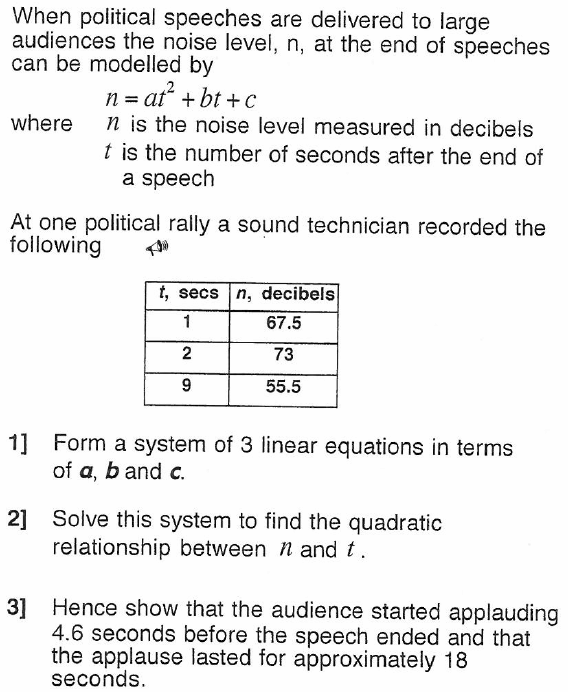
**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

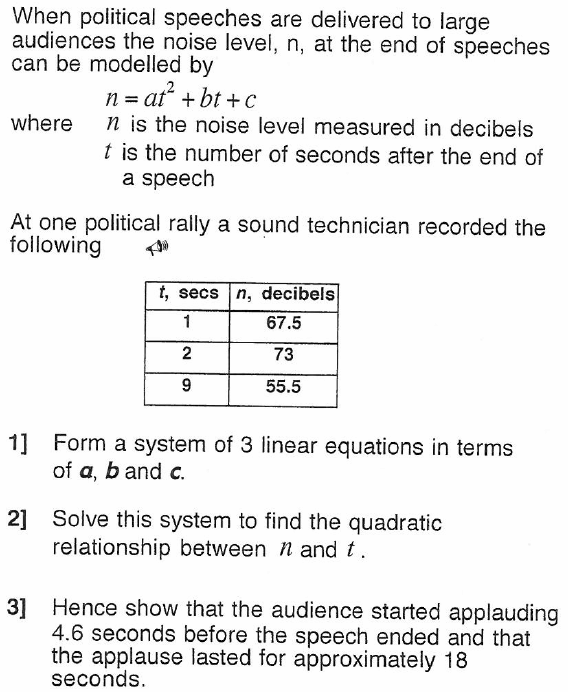
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**Distribution Assignment 5 (Simultaneous) Distribution Assignment 5 (Simultaneous)**

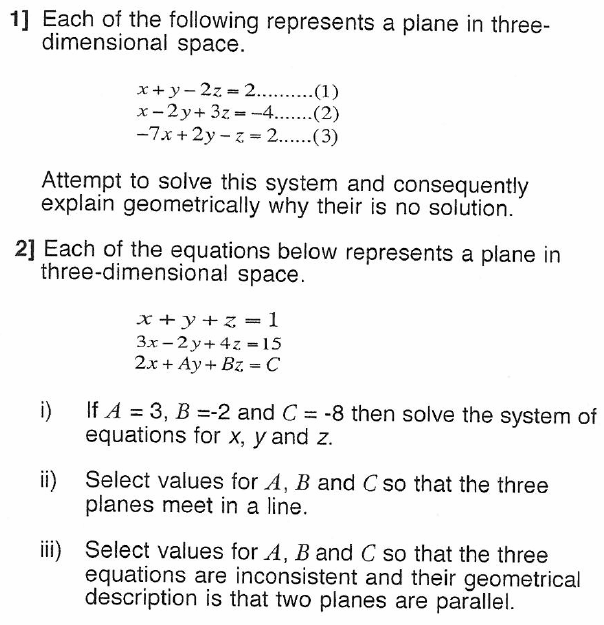
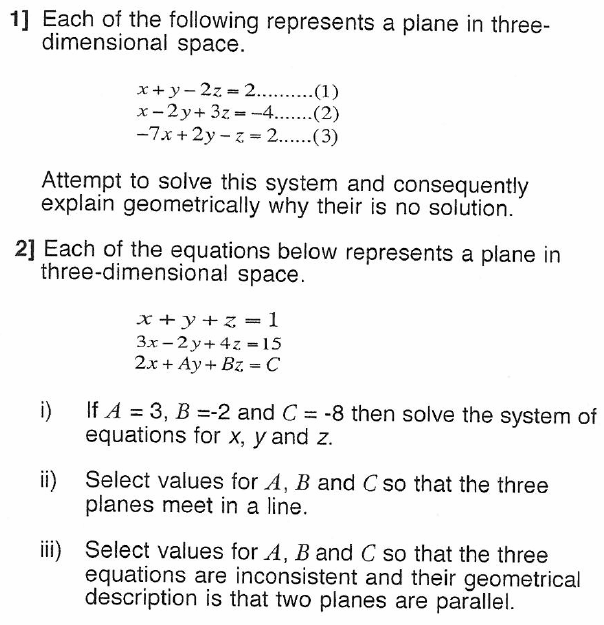
**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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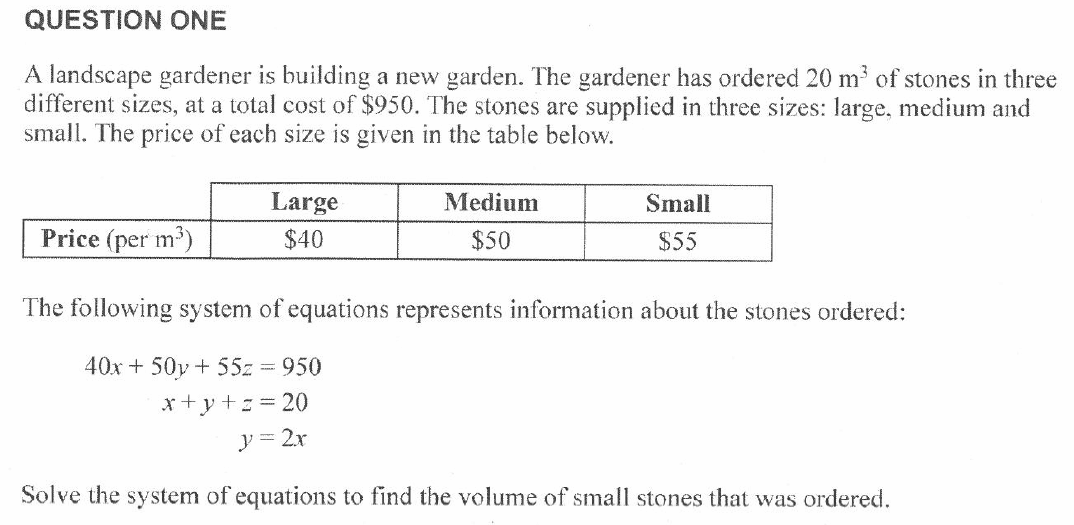
**Distribution Assignment 6 (Simultaneous) Distribution Assignment 6 (Simultaneous)**

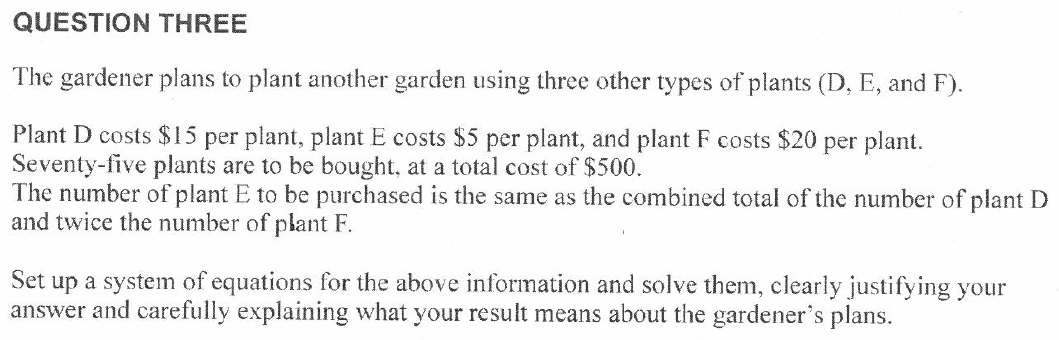
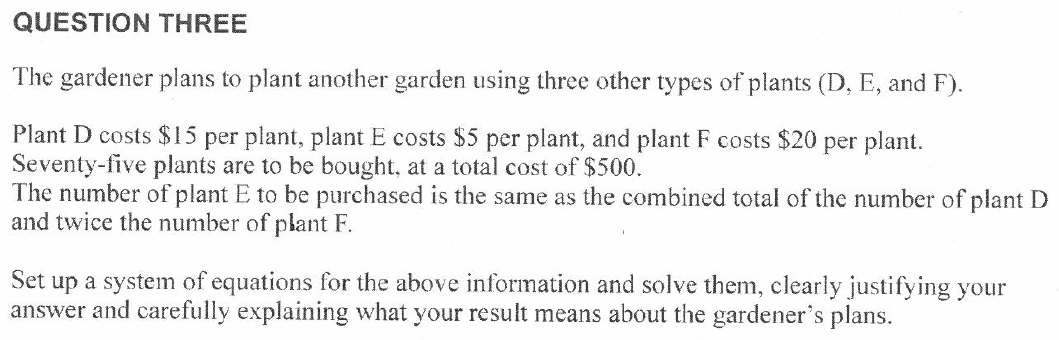
**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

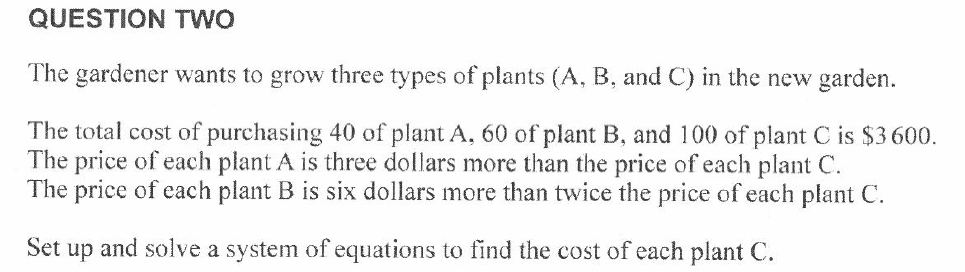
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**Distribution Assignment 7 (Simultaneous)**

**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

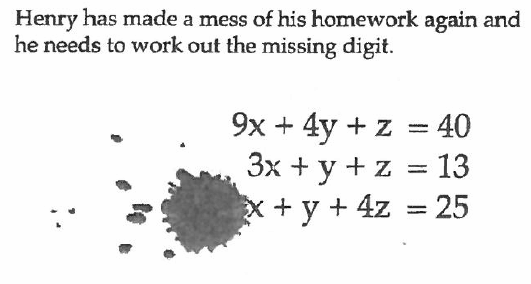
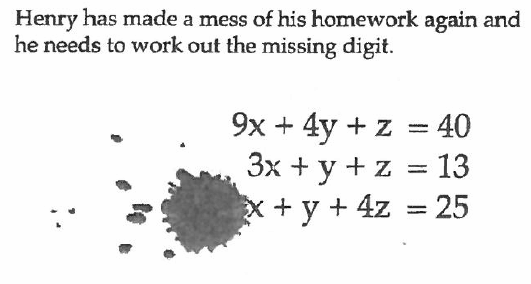
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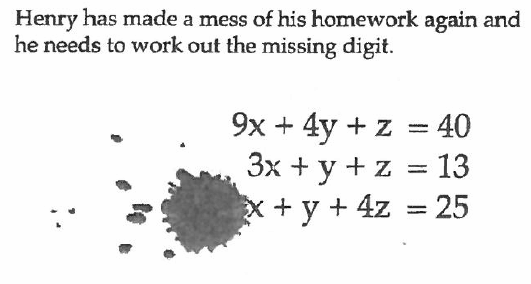
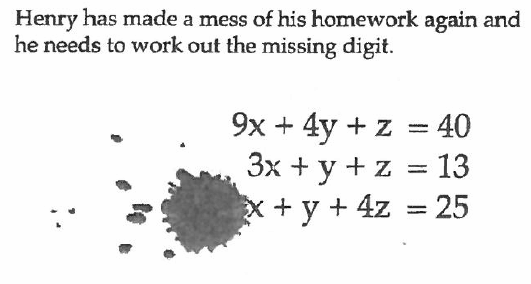
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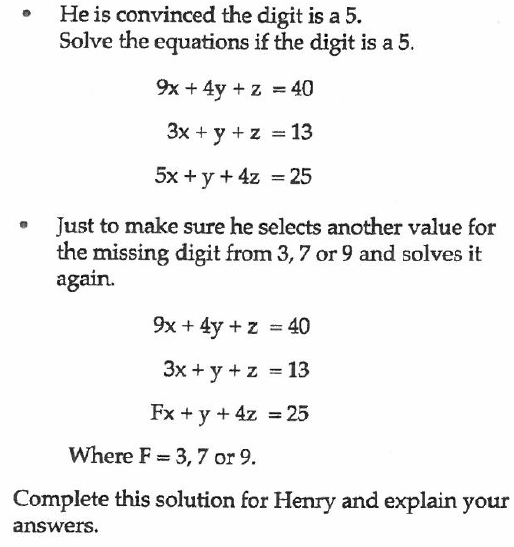
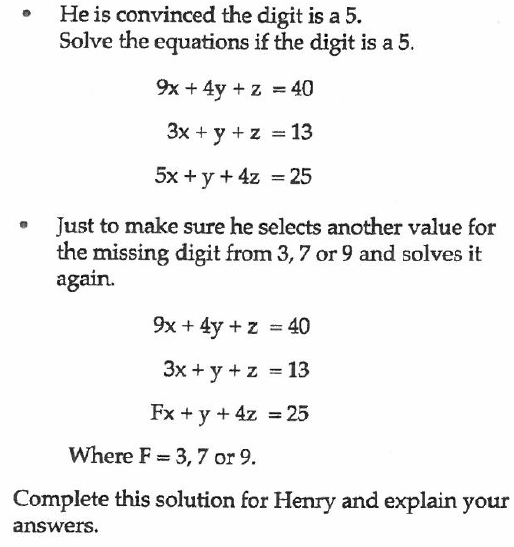
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**Distribution Assignment 8 (Simultaneous) Distribution Assignment 8 (Simultaneous)**

**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

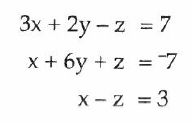
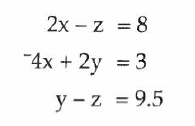
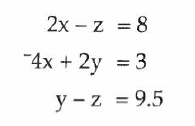
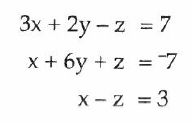
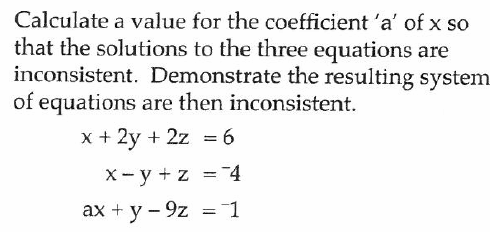
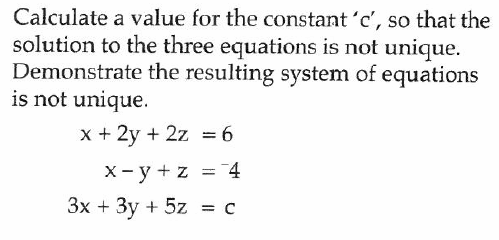
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**Distribution Assignment 9 (Simultaneous) Distribution Assignment 9 (Simultaneous)**

**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**3)**

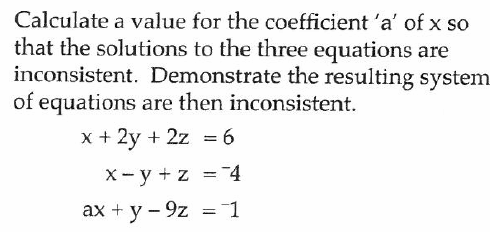
**2)**

**1)**

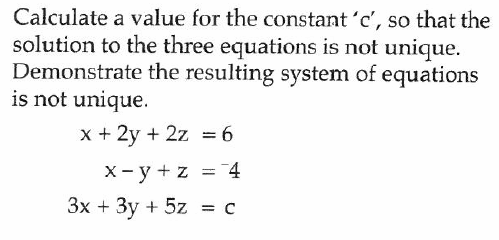
**4)**

**2)**

**1)**

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**3)**

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**4)**

**Distribution Assignment 10 (Simultaneous)**

**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1) (Achieve) Solve this system of equations:  
 *x* + *y* + *z* = 1 (i)

3*x* – 2*y* + 4*z* = 15 (ii)

2*x* + 3*y* – 2*z* = -8

2) (Merit) In a mathematics competition there are three sections. Each correct answer in section A scores four points, each correct answer in section B scores five marks, and each correct answer in section C scores six marks.

One entrant answered 23 questions correctly, and earned 112 marks altogether. She had 9 more answers correct in sections A and B together than in section C.

a) Form a set of simultaneous equations

b) Solve the equations to find the number of correct questions in section B

(Excellence) For **each** set of equations below, attempt to solve, and explain geometrically what is happening.

3) *x* + *y* + *z* = 1 4) *x*  + *y* + *z* = 2

2*x* – *y* + *z* = 2 3*x* + 3*y* + 3*z* = 15

3*x* + 2*z* = 4 2*x* + 4*y* – 5*z* = 6

5) 2*x* + *y* – 5*z* = 1 6) *x* + *y* + *z* = 8

4*x* - 3*y*  + 2*z* = 10 *x* + *y* + *z* = 10

2*x* + 6*y* - 17*z* = -7 *x* + *y* + *z* = 13

7) *x* + *y* + *z* = 4

2*x* + 2*y* + 2*z* = 8

3*x* + 3*y* + 3*z* = 12

**Distribution Assignment 10 (Simultaneous)**

**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1) (Achieve) Solve this system of equations:  
 *x* + *y* + *z* = 1 (i)

3*x* – 2*y* + 4*z* = 15 (ii)

2*x* + 3*y* – 2*z* = -8

2) (Merit) In a mathematics competition there are three sections. Each correct answer in section A scores four points, each correct answer in section B scores five marks, and each correct answer in section C scores six marks.

One entrant answered 23 questions correctly, and earned 112 marks altogether. She had 9 more answers correct in sections A and B together than in section C.

a) Form a set of simultaneous equations

b) Solve the equations to find the number of correct questions in section B

(Excellence) For **each** set of equations below, attempt to solve, and explain geometrically what is happening.

3) *x* + *y* + *z* = 1 4) *x*  + *y* + *z* = 2

2*x* – *y* + *z* = 2 3*x* + 3*y* + 3*z* = 15

3*x* + 2*z* = 4 2*x* + 4*y* – 5*z* = 6

5) 2*x* + *y* – 5*z* = 1 6) *x* + *y* + *z* = 8

4*x* - 3*y*  + 2*z* = 10 *x* + *y* + *z* = 10

2*x* + 6*y* - 17*z* = -7 *x* + *y* + *z* = 13

7) *x* + *y* + *z* = 4

2*x* + 2*y* + 2*z* = 8

3*x* + 3*y* + 3*z* = 12