

# Unit 1 TEST **OUTLINE**: Linear Systems

Solving Linear Systems by Graphing, Substitution, and Elimination and applications

*Show all work in an organized process for full marks. Only use space provided.*

K	A	T	C
10	10	10	10

## Knowledge [ 10 Marks ]

1. **TWO TRUE/FALSE QUESTIONS**

[ 2 Marks ]

2. SOLVE the following by **Substitution**:

[ 4 Marks ]

*Given Equation 1*

*Given Equation 2*

- ☐ Rearranged/Multiplied Correctly
- ☐ Substitution used
- ☐ Correct Algebra  
(BEDMAS, expand, simplified)
- ☐ Solved corrected

3. SOLVE the following by **Elimination**:

[ 4 Marks ]

*Given Equation 1*

*Given Equation 2*

- ☐ Rearranged/Multiplied Correctly
- ☐ Substitution used
- ☐ Correct Algebra  
(BEDMAS, expand, simplified)
- ☐ Solved corrected

**Application [ 10 Marks ]** - Only CHOOSE ONE to FULLY SOLVE. You must set up for all three.

**4. Measurement & Quantity Question (Lesson 5)**

**5. Mixture and Investment Question (Lesson 6)**

**6. Rates: Speed-Distance-Time (Lesson 7)**

**SETUP: Question #:** \_\_\_\_\_ **[ 2 Marks ]**

<input type="checkbox"/> Let statement(s)	<input type="checkbox"/> Equation(s)
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**SETUP: Question #:** \_\_\_\_\_ **[ 2 Marks ]**

<input type="checkbox"/> Let statement(s)	<input type="checkbox"/> Equation(s)
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**FULLY SOLVE: Question #:** \_\_\_\_\_

**[ 6 Marks ]**

<input type="checkbox"/> Let statement / Variables identified
<input type="checkbox"/> Equation(s) set up
<input type="checkbox"/> Substitution or Elimination Used
<input type="checkbox"/> Correct Process / Steps
<input type="checkbox"/> Correct Solution / Answer
<input type="checkbox"/> Concluding statement

## Thinking [ 10 Marks ]

7. *A question where I did not show you directly. First impression is that it feels like I didn't teach you. However, you were taught all the tools. You need to piece it together yourself. [ 5 marks ]*

- ☐ Success Criteria 1
- ☐ Success Criteria 2
- ☐ Success Criteria 3
- ☐ Success Criteria 4
- ☐ Success Criteria 5

### Evidence of THINKING throughout test [ 5 Marks ]

- ☐ I can determine the known in the problem
- ☐ I can determine the unknown in the problem
- ☐ I can select one or more strategy(ies) related to topics we have covered
- ☐ I can make connections to prior knowledge and skills
- ☐ I can determine whether or not an answer is reasonable

**Communication [ 10 Marks ]**

8. *Definition based questions. Use appropriate math terminology for linear relations and systems. Demonstrate understanding by providing examples.* [ 5 marks ]

- ☐ Success Criteria 1
- ☐ Success Criteria 2
- ☐ Success Criteria 3
- ☐ Success Criteria 4
- ☐ Success Criteria 5

**COMMUNICATION throughout test [ 5 Marks ]**

- ☐ I can use correct mathematical terminology
- ☐ I can support my mathematical thinking with evidence through my written work
- ☐ I can use proper mathematical notation and convention (ie. vertical work, symbols, etc)
- ☐ I can write clear solutions (Labeled equations and steps can be followed in order)
- ☐ I can write a concluding/therefore statement for my answers