

Survival Guide

**CREATING EQUATIONS**

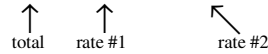
Translating

Lisa weighs 7kg less than Alex. The sum of their masses is 165kg.

Two rates + given total

Playing tennis burns 25kJ/min and cycling burns 35kJ/min. You exercised for 50min total and burned 1450kJ of energy.

$$\underline{\quad} = \underline{\quad} x + \underline{\quad} y$$



Percent

Trail mix A has 10% berries and trail mix B has 20% berries. Mix them together to get 16% of 500grams in total.

Shape

The perimeter of rectangular pool is 46m. The width is 5m shorter than twice the length.

**CHOOSING A SCALE**

Unit 3 – Linear Systems

Name: \_\_\_\_\_

**GRAPHING METHOD FOR FINDING POI**

The student council is deciding which banquet hall to book for this year's graduation dinner and dance. Thompson Hall charges a fixed cost of \$1200 plus \$35 per student. Adeline's Country Club charges \$1000 plus \$40 per student. Write a system of linear equations to represent the situation.

One Rate + no total

$$y = \underline{\quad} x + \underline{\quad}$$

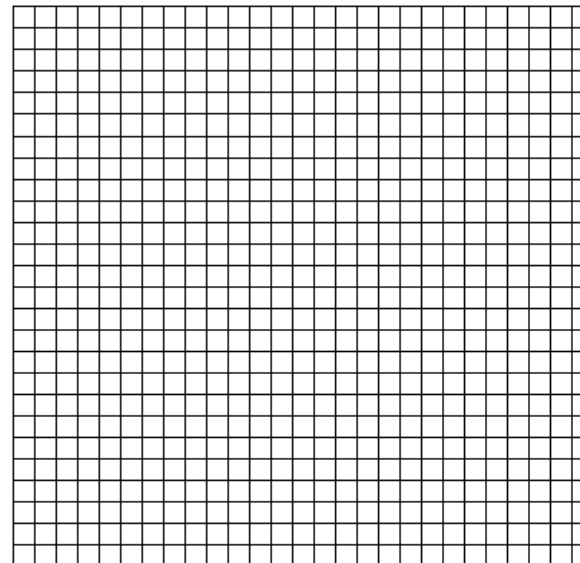
Fill in the tables to help you graph the lines

Thomson:

students	total cost

Adeline:

students	total cost



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**ELIMINATION**

$$2x + 5y = -20$$

$$5x - 3y + 15 = 0$$

Unit 3 – Linear Systems

Name: \_\_\_\_\_

**SUBSTITUTION AND CHECK**

$$x + 2y = -5$$

$$3x - y = -1$$