

FMP 10 LG 15A (Formative Assessment)

Marking Teacher: _____

Name: _____

Student #: _____

1. Write a linear system to model this situation:

A group of students and adults went to the IMAX Theatre in Victoria. The admission fee was \$15 for a student and \$20 for an adult. The total cost for the 30 people was \$475.

2. Create a situation that can be modeled by the following linear system:

$$5x - 12y = 166$$

$$x + y = 40$$

3. Write a linear system to model this situation:

A fitness club offers two payment plans: (Use **F** for the total fee and **v** is the number of visits.)

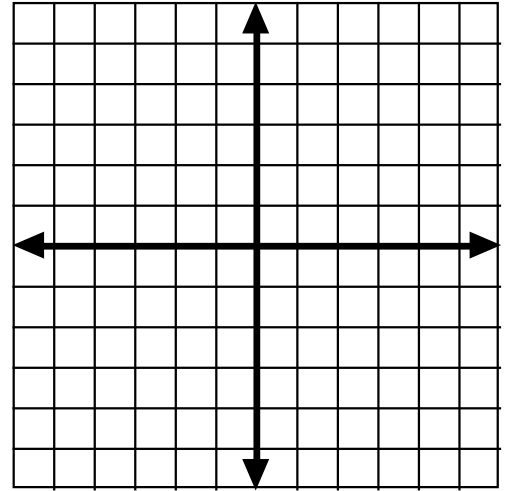
Plan A: an initiation fee of \$100 plus a user fee of \$8 per visit.

Plan B: a user fee of \$12 per visit.

4. Solve the following liner system by graphing:

$$y = \frac{-1}{2}x + 1$$

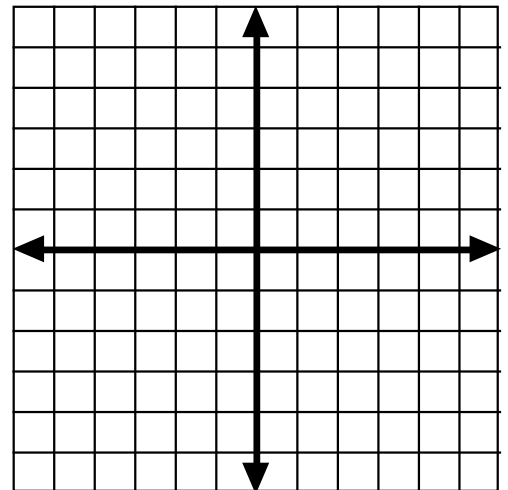
$$y = 2x - 4$$



5. Solve the following liner system by graphing:

$$2x + 2y = -2$$

$$2x - 3y = 8$$



FMP 10 LG 15B (Formative Assessment)

Marking Teacher: _____

Name: _____

Student #: _____

1. Write a linear system to model this situation:

A group of students and adults went to the Provincial Museum in Victoria. The admission fee was \$10 for a student and \$15 for an adult. The total cost for the 40 people was \$450.

2. Create a situation that can be modeled by the following linear system:

$$3x + 7y = 130$$

$$x + y = 30$$

3. Write a linear system to model this situation:

A golf club offers two payment plans: (Use **F** for the total fee and **r** is the number of rounds.)

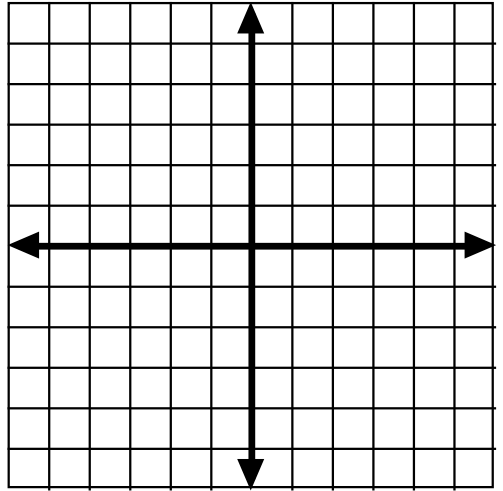
Plan A: an initiation fee of \$500 plus a user fee of \$25 per round.

Plan B: a user fee of \$40 per round.

4. Solve the following liner system by graphing:

$$y = \frac{2}{3}x - 2$$

$$y = -x + 3$$



5. Solve the following liner system by graphing:

$$x + 3y = -6$$

$$2x - 3y = 6$$

