

MATHEMATICS

OPEN-ENDED ITEM

D.2

17. Patrika wants to join 1 of 2 gyms near her home. Each gym charges an enrollment fee for joining the gym and a monthly membership fee, as shown below.

Sport Gym	
Enrollment Fee:	\$55
Monthly Fee:	\$30

City Gym	
Enrollment Fee:	\$95
Monthly Fee:	\$25

- A. Calculate the cost of a **1-year** membership at **each** gym. Show all your work.

- B. Write an equation for each gym's membership plan that describes the relationship between the number of months of membership (x) and the total cost (y).

GO TO THE NEXT PAGE TO FINISH THE QUESTION.

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17. *Continued.* Please refer to the previous page for task explanation.

- C. Determine the number of months at which the total cost of membership at each gym will be the same amount of money. Show all your work. Explain why you did each step.

Score Point 4	Score Point 3	Score Point 2	Score Point 1	Score Point 0
33%	15%	24%	18%	10%