

Name: _____

Gym

Carlo wants to join a gym. The gym offers three membership options.



1. Carlo thinks he will go to the gym about 20 times a month. Which of these options is the least expensive for Carlo? Show how you determined your answer.

2. How many visits each month would make the cost of the **Regular** and the **All-in-One** price the same? _____

Explain how you figured it out.

3. a. It costs \$300 to join the new *Superfit* Gym. You then pay \$15 each month and \$2 each time you work out. Carlo thinks he will use the gym about 20 times each month for a year. Calculate the cost of using the *Superfit* Gym for one year.
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- b. How much will Carlo save during the first year if he uses the *Superfit* Gym rather than the Regular deal at the other gym?
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Show your work.

4. The original gym wants to change their “Regular” pricing system so that it is a better deal than *Superfit* for people that attend 20 times per month for a year but they still want to make as much money as possible. Design a payment system like the “Regular” pricing that is a better deal than *Superfit* by the end of the year.

Gym	Rubric	
The core elements of performance required by this task are: <ul style="list-style-type: none"> • select relevant data and operations • solve a practical money problem <p>Based on these, credit for specific aspects of performance should be assigned as follows</p>	points	section points
<p>1. Gives correct answer: Pay-as-you-go price for 20 visits = \$120 Regular deal price for 20 visits = \$90 All in one price is \$200 Regular deal Four correct answers: 3 points</p> <p><i>Partial credit</i> Three correct answers: 2 points Two correct answers: 1 point</p>	<p>3</p> <p>(2)</p> <p>(1)</p>	<p>3</p>
<p>2. Gives correct answer as: 25 visits Shows calculations such as: $100 - 50 = 50$ $50 \div 2 = 25$</p>	<p>1</p> <p>1</p>	<p>2</p>
<p>3. a. Gives correct answer as: \$960 b. Gives correct answer as: \$120 Shows calculations such as: Superfit: $300 + 180 + 480 = 960$ Regular: $600 + 480 = 1080$ $1080 - 960 = 120$</p>	<p>1</p> <p>1</p> <p>1</p>	<p>3</p>
<p>4. Gives a correct answer such as: \$39 a month and \$2 each time you work out $39 \times 12 = 468$ $2 \times 20 \times 12 = 480$ $468 + 480 = 948$</p>	<p>2</p>	<p>2</p>
Total Points		10