

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.

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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"> <li>• select relevant data and operations</li> <li>• solve a practical money problem</li> </ul> <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 = <b>\$120</b>            Regular deal price for 20 visits = <b>\$90</b>            All in one price is <b>\$200</b>  <b>Regular deal</b>            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>	3
<p>2. Gives correct answer as:  <b>25 visits</b>            Shows calculations such as:  <math>100 - 50 = 50</math>  <math>50 \div 2 = 25</math></p>	<p>1</p> <p>1</p>	2
<p>3. a. Gives correct answer as: <b>\$960</b>            b. Gives correct answer as: <b>\$120</b>            Shows calculations such as:            Superfit: <math>300 + 180 + 480 = 960</math>            Regular: <math>600 + 480 = 1080</math>  <math>1080 - 960 = 120</math></p>	<p>1</p> <p>1</p> <p>1</p>	3
<p>4. Gives a correct answer such as:            \$39 a month and \$2 each time you work out  <math>39 \times 12 = 468</math>  <math>2 \times 20 \times 12 = 480</math>  <math>468 + 480 = 948</math></p>	2	2
<b>Total Points</b>		<b>10</b>