Gym

This problem gives you the chance to:
- select relevant data and operations
- solve a practical money problem

Carlo wants to join a gym.

The gym offers three membership options.

- **Regular deal**: Pay $50 a month and $2 each time you work out.
- **Pay as you go**: Pay only $6 each time you work out.
- **All-in-one price!**: Pay just $100 per month for unlimited use of our great facilities.

```
All-in-one price!
Pay just $100 per month for unlimited use of our great facilities.
```

1. Carlo thinks he will go to the gym about 20 times a month. Calculate how much each of these options would cost Carlo for one month.

   - Pay as you go: $120.00 ✓
   - Regular deal: $90.00 ✓
   - All-in-one price: $100.00 ✓

Which of these options is the least expensive for Carlo? Regular deal 3
2. How many visits each month would make the cost of the Regular deal and the All-in-one price the same?

Explain how you figured it out.

If the regular deal is $90 in 20 visits and the all-in-one price is $100 and it doesn't matter how many times you visit, the regular deal needs 10 more $ and 100 more visits to get to $100 and 100 times

3. 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.

How much will Carlo save during the first year if he uses the Superfit Gym rather than the Regular deal at the other gym?

Show your work:

\[
\begin{array}{c}
3 \times 15 = 45 \\
\times 12 = 540 \\
\times 2 = 1080 \\
+ 40 = 520 \\
+ 300 = 520 \\
\end{array}
\]

\[
\begin{array}{c}
+ 240 \\
\frac{600}{840} \\
\frac{520}{320} \\
\end{array}
\]

$520 x 0

\$520

He's saving $320
Gym

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**Pay as you go**
Pay only $6 each time you work out

**Regular deal**
Pay $50 a month and $2 each time you work out

**All-in-one price!**
Pay just $100 per month for unlimited use of our great facilities

1. Carlo thinks he will go to the gym about 20 times a month. Calculate how much each of these options would cost Carlo for one month.

- **Pay as you go**
  
  \[ 20 \times \$6 = \$120 \]

- **Regular deal**
  
  \[ 20 \times \$2 = \$40 \]

- **All-in-one price**
  
  \[ \$100 \]

Which of these options is the least expensive for Carlo?

The option that I think is the least expensive for Carlo is **Pay as you go** because

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

Explain how you figured it out.

3. It costs $300 to join the new Superfit Gym. You then pay $10 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.

How much will Carlo save during the first year if he uses the Superfit Gym rather than the Regular deal at the other gym?

Show your work.
This problem gives you the chance to:
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The gym offers three membership options.

<table>
<thead>
<tr>
<th>Pay as you go</th>
<th>Regular deal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pay only $6 each</td>
<td>Pay $50 a month and $2 each time</td>
</tr>
<tr>
<td>time you work out</td>
<td>time you work out</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All-in-one price!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pay just $100 per</td>
</tr>
<tr>
<td>month for unlimited</td>
</tr>
<tr>
<td>use of our great</td>
</tr>
<tr>
<td>facilities</td>
</tr>
</tbody>
</table>

1. Carlo thinks he will go to the gym about 20 times a month. Calculate how much each of these options would cost Carlo for one month.

Pay as you go: $120
Regular deal: $2000
All-in-one price: $1000

Which of these options is the least expensive for Carlo? Pay as you go.
2. How many visits each month would make the cost of the Regular deal and the All-in-one price the same?

\[ \text{All-in-one price} \]

I calculate \[ 2.0 \times 100 = 2000 \] then \[ 20 \times 2 = 40 \] then \[ 40 \times 50 = 2000 \].

3. 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.

How much will Carlo save during the first year if he uses the Superfit Gym rather than the Regular deal at the other gym?

Show your work.
Gym

This problem gives you the chance to:
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Carlo wants to join a gym.

The gym offers three membership options.

- **Pay as you go**
  - Pay only $5 each time you work out

- **Regular deal**
  - Pay $50 a month,
  - and $2 each time you work out

- **All-in-one price!**
  - Pay just $100 per month for unlimited use of our great facilities

1. Carlo thinks he will go to the gym about 20 times a month.
   Calculate how much each of these options would cost Carlo for one month.

   - Pay as you go: $100 
   - Regular deal: $90
   - All-in-one price: $100

   Which of these options is the least expensive for Carlo?

   Regular Deal
2. How many visits each month would make the cost of the Regular deal and the All-in-one price the same?

$25 \checkmark \ 1$

Explain how you figured it out.

I figured this out by saying if it cost $90$ for the regular and $10$ for every workout, $90 + 6$ more workouts would be $100$, and so would the all-in-one.

3. 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.

\[
\frac{300}{12} + \frac{20}{12} \times \frac{20}{12} \times 12 = 355
\]

Calculate the cost of using the Superfit Gym for one year.

How much will Carlo save during the first year if he uses the Superfit Gym rather than the Regular deal at the other gym?

265