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.

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 $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.

_____

_____

_____

_____

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   Test 6: Form A

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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 $6 × 20 = 120 $ ~~$120~~ ✓

Regular deal $~~50~~+40 = 90 $ ~~$90~~ ✓

All-in-one price $10 ×$10 = 100 $ ~~$100~~ ✓

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.

_____

_____

_____

_____

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.   _____H,500_____ ✗

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

Show your work.

③

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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 $ 170.00 ✓

Regular deal $ 90.00 ✓

All-in-one price $ 100.00 ✓

Which of these options is the least expensive for Carlo?   Regular ✓   B

$$\begin{array}{r} 20 \\ \times\ 6 \\ \hline 120.00 \end{array}$$

$$\begin{array}{r} 100 \\ \times\ 1 \\ \hline 100.00 \end{array}$$

$$\begin{array}{r} 20 \\ \times\ 2 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 40 \\ +\ 50 \\ \hline 90.00 \end{array}$$

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

_____30____ x   o

Explain how you figured it out.

I added 10 more days to each month.   x   o

_____

_____

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.

____450____ x   o

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

____630____ x

Show your work.

$$\begin{array}{r} 90 \\ \times 12 \\ \hline 180 \end{array}$$

$$\begin{array}{r} +900 \\ \hline 1080 \\ -450 \\ \hline 630 \end{array}$$

Gym   Test 6: Form A

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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 $ _190_ ✓

All-in-one price $ _100_ ✓

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?

21 times

Explain how you figured it out.

Because if you add one more x time to the Regular Deal it would add up to $100.

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.

$504

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

$600

Show your work.

$$15 \times 10 = 30$$
$$+150$$
$$180$$

$$17 \times 2 = 34$$

$$52 \times 10 = 104$$
$$+1020$$
$$\$1,124$$

$$34 + 70 = 204$$

$$\$1,124$$
$$-\$504$$
$$\$600$$

Gym   Test 6: Form A

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and $2 each
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out

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facilities

$$\begin{array}{r} 20 \\ \times\ 2 \\ \hline \$40 \end{array}$$

$$\begin{array}{r} 20 \\ \times\ 6 \\ \hline \$120 \end{array}$$

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 $ __40__ ✗

All-in-one price $ __100__ ✓

Which of these options is the least expensive for Carlo?

Regular deal ✓ (2)

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

_50_ ✗ 0

Explain how you figured it out.

$I \times 50.2 = 100$ ✗ 0

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. _____ 0

How much will Carlo save during the first year if he uses the Superfit Gym rather than the Regular deal at the other gym? _____ 0

Show your work.

$$\begin{array}{r} 12 \\ \times\ 15 \\ \hline \end{array}$$

$$\begin{array}{r} 6\ 0 \\ +\ 1\ 2\ 0 \\ \hline 1\ 8\ 0 \end{array}$$ ✗

0

Gym   Test 6: Form A

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8-29-68

| **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 $120.00 ✓

Regular deal $40.00 ✗

All-in-one price $100.00 (¹)

Which of these options is the least expensive for Carlo?

All-in-One Price

Gym   Test 6: Form A

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

$140.00 ✗ · 6

Explain how you figured it out.

$140.00 because I added ✗ o
the regular deal and
All-in-on price together.

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.

✗ o

Calculate the cost of using the Superfit Gym for one year. $ 40.00

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

$0.00 ✗ o

Show your work.

o

✗

$$\begin{array}{cc} 20 & 20 \\ \times\ 2 & \times 15 \\ \hline \$40 & 100 \\ & or\ +200 \\ \hline & \$300 \end{array}$$

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Calculate how much each of these options would cost Carlo for one month.

Pay as you go $ 120 ✓

Regular deal $ 90 ✓

All-in-one price $ 100 ✓

Which of these options is the least expensive for Carlo?

Regular deal   3

handwritten work in margins:

50
2

20
× 2
40
50

20
× 6
120

20

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

10 visits ✗   o

Explain how you figured it out.

Because the regular deal is
$2 each time he works out
and for the All-in-one price
is $100 so 50 x $2 = $100 so it costes the same

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.

$520 ✓   o

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

$1,480 ✗   o

Show your work.

240 times $2,000

```
  9 9
12,000      20        20
- 520      x12      $15    $300    20    40
------     ----     ----
 1480       40      108            $2  x50
           200     +200           40   2000
           ----    ----
           240     300            20  00
                                      3
  28                    300
  e        40
  --             15           40    180 ③
  40             x8                ■
                 ---
                 360            +180   40
                               ----   --
                        +180          220

                 +1 50               +300
                 ----
                 100
```

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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.
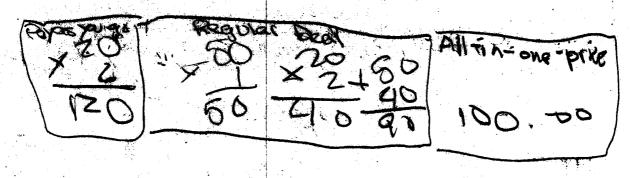
Pay as you go $ _120.00_ ✓

Regular deal $ _90.00_ ✓

All-in-one price $ _100.00_ ✓

Which of these options is the least expensive for Carlo? The Regular deal ✓

Pay as you go
20
× 6
120

Regular deal
20
× 2
40

50
+ 40
90

All in one price
100.00

Gym   Test 6: Form A

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

<u>450 X</u> 0

Explain how you figured it out.

I first compared the Regular deal with cost 90) and the All-in-one price too to X 0
make the numbers the same I multiplied 90
by 10 and got 900 then I multiplied 100 by 9 and got
the same number I divide 900 by $2.00 and got 450.

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.

$960.00 ✓ 1

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

_____/_____ 0

Show your work.

100, 100, 200, 300, 400, 500, 600, 700, 900, 900

Gym   Test 6: Form A