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 $\begin{array}{r} 20 \\ \times\ 6 \\ \hline 120 \end{array}$ $ \underline{120.00}$ ✓

Regular deal $\begin{array}{r} 20 \\ \times\ 2 \\ \hline 40 \\ +\ 50 \\ \hline 90 \end{array}$ $ \underline{90.00}$ ✓

All-in-one price $ \underline{100}$ ✓

Which of these options is the least expensive for Carlo?   <u>Regular Deal</u>

3

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?

$100   X   0

Explain how you figured it out.

I did 2×25=50 ✓ then plus 50
which equal $100 and it is the
same as the All-in one price
now.

1

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.

$600   X   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   X   0

Show your work.

0

$$
\begin{array}{r}
\overset{2}{2}0 \\
\times 15 \\
\hline
100 \\
+20 \\
\hline
300 \\
+300 \\
\hline
600
\end{array}
$$

④ ■

Gym   Test 6: Form A

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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 ✓

Regular deal $ 90 ✓

All-in-one price $ 100 ✓   3

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

Page 2   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?

_____ 25 ✓ _____ |

Explain how you figured it out.

_I figured it out by doing 100$ for All-in-one
and 50$ + 40$ = 90$ for Regular deal for Regular
deal you Pay every day you go which is two dollars five
more times and 2$ x 5 = 10$ ✓ 90$ + 10$ = 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.

960$ ✓)

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

120$ ✓ |

Show your work.

```
 11
 300$
+180$
 480$
 960
```

```
 1
 15$
 x12
  30
  50
 180$
```

```
 2$
 x20
  00
  40
  40
```

```
  6  10
 XX0$
  50$
 576$
```

```
  40
 x12
  88
 480
 40
```

```
   010
 x060
  960
  120
```

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 $ 90 ✓

All-in-one price $ 100 ✓

Regular deal

Which of these options is the least expensive for Carlo?

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

$$
\begin{array}{r}
20 \\
\times\ 2 \\
\hline
40 \\
+50 \\
\hline
90
\end{array}
$$

3

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?

_25_ ✓ |

Explain how you figured it out.

I knew that it took 20 visits for $90 which meant that $10 were left. Each visit is $2 so I just divided 10 by 2 and got 5. Then I added 20 and 5 to get my answer of 25. |

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_ ✓ |

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

_$120_ ✓ |

Show your work.

```
    1
   15
  × 12
  ─────
   30
 + 15 0
 ─────
  180
 + 30 0
 ─────
  480
 + 480
 ─────
  960
```

```
   20
  × 2
  ────
   40
  × 12
  ────
   80
+ 40 0
 ────
  480
```

```
   50
  × 12
  ────
  100
 ┌500
  600
+480
 ────
  880
- 960
 ────
  120
```

|

(8)

Gym   Test 6: Form A

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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 ✓

Regular deal $ 1040 ✗

All-in-one price $ 3000 ✗

Which of these options is the least expensive for Carlo?   Pay as you go

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?

24 times X 0

Explain how you figured it out.

What I did was that that I added 50 +2 so I
got 24 days. 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.

_225_ X 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?

_$2+_ X 0

Show your work.

X

6

Gym

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

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$20 \times 6 = 120$

> **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. $20 \times 6 =$

Pay as you go $ _120_ ✓ $2 \times 20 = 40$

Regular deal $ _90_ ✓ $+50$
                                                        90

All-in-one price $ _100_ ✓

Which of these options is the least expensive for Carlo?   _Regular deal_ **3**

$\begin{array}{r} 2 \\ \times\ 5 \\ \hline 10 \end{array}$

2. How many visits each month would make the cost of the Regular deal and the All-in-one price the same?   _125_ ✓ |

Explain how you figured it out.

Regular $50 + (2×25)=$100 All-in-one ✓ |
price = $100 per month.

_____

_____

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.   _$780_ ✗

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?   _$300_ ✗ 2

Show your work. $15 × 12 months=$180

20 each month
  ×
  2×12=480   90 ✗ 6

$300
+$480
$780

4680
-780
300

⑤ ■

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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 $6 \times 20 = 120$ $ \underline{120}$ ✓

Regular deal $2 \times 20 = 40 + 50 = 90$ $ \underline{90}$ ✓

All-in-one price 100 $ \underline{100}$ ✓

Which of these options is the least expensive for Carlo?

$\underline{Regular}$ ✓   **3**

Regular

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?

25 Visits ✓

Explain how you figured it out.

I timesd 2 int 22 it was not so
I timesd 2 int 25 it was 50 and
50 + 50 = 100 the same as All-in ✓
on Price

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.

660 ✗   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.

✗

240   180
✗ 2   480
_____
480 +·
       660

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 $ ~~2000~~ and 3

All-in-one price $ 100 and 4$

Which of these options is the least expensive for Carlo?

All-in-one price

(1)

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?

400 ~~X~~ **O**

Explain how you figured it out.

I ~~took~~ the price of the Regular deal and the price of All-in-one price ✗ **O** and subtracted the prices which was five hundred minus one hundred and got four hundred

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. **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**

Show your work. ✗

O

Gym Test 6: Form A

① ■

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```
┌─────────────────────┐
│    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     │
└──────────────────────────┘
```

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 $ 90 ✓

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?

25 days a month ✓ 1

Explain how you figured it out.

I thought "I he goes 20 days in a month and each time for the regular deal he pay 2 extra dollars so 5 more days would be $10 ✓ 1 and the all-in-one price is exactly $00 per month. So add the $90 from when he went 20 days and the 5 extra days and I t= $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.

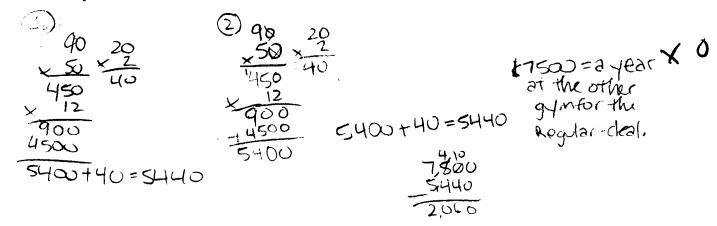1 Calculate the cost of using the Superfit Gym for one year.

$5,440 a year ✗ O

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

$2,000 saved ✗ 2

Show your work.

1)
```
  40    20
x  50  x  2
 450    40
x  12
 900
4500
5400 + 40 = 5440
```

2)
```
  90    20
x 50  x  2
 450    40
   12
 900
-4500
5400
```
5400 + 40 = 5440

$7500 = a year ✗ O
at the other gym for the Regular deal.

```
 7,800
-5440
 2,060
```

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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 $ 90 ✓

All-in-one price $ 100 ✓

Which of these options is the least expensive for Carlo?   Regular Deal   3

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?

_____25_ ✓_____ I

Explain how you figured it out.

I did the All-in-one price as $100
then I did the regular deal as
20 times but that only came to $90
so I changed it to 25 times and they both
came out as $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.

_____$960 ✓_____ I

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

$120 ✓ I

```
 40
 80
----
120
```

Show your work.

```
  1
  300
+ 180
 480
 960
```

```
15 × 12 = 180
20 × 12 = 240
240 × 2 = 480
```

```
50 × 12 = 600
2 × 20  40
20 × 12 = 240
240 × 2 = 480
```

```
  1
  600
  240
  480
 1320
```

```
50 × 12 = 600
20 × 12 = 240   I

 600
 480
 1080

  0 12 1
 X  3 20
- 0 960

 0 360
```